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ACIDIC PRECIPITATION IN ONTARIO STUDY

1983 DAILY AMBIENT AIR CONCENTRATION LISTINGS

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PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the 1983 results acquired from the APIOS daily ambient air sampling network. Collection of daily ambient air samples began in the Southwestern Region (Longwoods) on March 3, 1981; in the Central Region (Dorset) on July 25, 1980; in the Southeastern Region (Charleston Lake) on March 23, 1981; and in the Northwestern Region (Fernberg) on October 2, 1981. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involves the application of gross limit checks by comparing each analytical result with a calculated upper limit. Gross limit checks were applied to the results. Upper limits were determined as M + 2S where median (M) and scale (S) represent robust estimates of mean and standard deviation respectively. Scale of the distribution was estimated from interquartile distance, i.e. S=0.74 (3rd quartile - 1st quartile) based upon logarithmically transformed results. In a situation where the distribution is significantly bounded by reported detection limits, S may be estimated as follows, S=1.48 (3rd quartile - 2nd quartile). All lower gross limits were specified as zero. Upper limits were calculated for each region. Also, the structure of each sample was examined by conducting a principal components analysis and plotting each sample's scores (PC I vs PC II)[1]. Samples that were determined to be obvious outliers were flagged as unreliable.

The sampler utilized for daily air sampling is the Metrex Sequential Air Sampler type SAS 8-25. The sampler is loaded once weekly with 7 active filter packs and 1 passive filter pack. Each active filter pack is exposed for 24 hours beginning at 0800 h local time and terminating at 0800 h local time the next day, except at Fernberg, 0700 h local time is utilized, because the zone time is one hour later at Fernberg than at the other three stations. The passive filter pack is for blank correction. Sampling details are described in another document[2].

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1 Harris, R.J. (1975). A Primer of Multivariate Statistics. Academic Press, New York, 332 pp.

2 Chan, W.H., Orr, D.B. and Vet, R.J. (1982). Acidic Precipitation in Ontario Study - An Overview: The Event Wet/Dry Deposition Network. Ontario Ministry of the Environment Report #ARB-11-82-ARSP.

Station Identification

The station identification is defined by four descriptive fields (e.g. - Dorset/Daily/Sequential #2). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilized on the location map.

Daily Ambient Air Concentration Listings

All analytical results presented in this report were corrected for passive loadings unless otherwise specified. If a passive result is reported as less than the analytical detection limit, then a value corresponding to one half the detection limit is utilized for passive correction. If the passive result is equal to or exceeds the active result, then a zero is reported. Each filter pack is loaded with a teflon filter, a nylon filter and a pair of Whatman 41 filters with the first two filter types being upstream and the last filter type being downstream. The teflon filter is analysed for particulate SO_4=, NO_3- and NH_4+. The nylon filter is analysed for gaseous HNO_3 and SO_2 retention, and the Whatman 41 filter (impregnated with K_2CO_3 - glycerol) is analysed for gaseous SO_2. The reported parameter "TOTL NO3" represents total nitrates and is calculated by the summation of N-HNO_3 and N-NO_3. If a detection limit is encountered in the calculation of "TOTL NO3", then a value corresponding to one half the detection limit is utilized. The parameter "SULPHUR DIOXIDE" represents the summation of gaseous SO_2 on Whatman 41 and on nylon filters. In the presented data listings the parameter "NITRIC" represents nitric acid. Remark codes (e.g. U, A, and G) appended to individual results are defined in a later section.

Field Comment Code Index

A - Sampler malfunction
B - Hydro failure (known/suspected)
C - Flow volumn suspected
D - Contamination (known/suspected)
E - Filter placement incorrect
F - Sample not submitted
Q - Other

Office Comment Code Index

F - Abnormal flow volume - flow volume rate less than 14,400 litres per day or greater than 43,200 litres per day

Z - Abnormal sampling period

X - Sample lost

Result Remark Code Index

> - actual result greater than value reported

< - actual result less than value reported

<T - actual result less than criterion of detection

<W - no response, minimum possible result reported

A - approximate value

U - unreliable result

P - not corrected for passive

<P - not corrected for passive - reported value is a detection limit

G - outlier of gross Limite Checks

PART II

STATION DESCRIPTION AND LOCATION MAP.

STATION LOCATION MAP

DAILY AMBIENT AIR MONITORING NETWORK

MAP REF. NUMBER	STATION NAME	MOE REGION	ELEVATION (m)	LATITUDE NORTH	LONGITUDE WEST	UTM COORDINATES NORTHING	UTM COORDINATES EASTING
01	Longwoods	Southwestern	239	42°53'	81°29'	4747850	460700
02	Dorset	Central	320	45°13'	78°56'	5009600	662450
03	Charleston Lake	Southeastern	92	44°30'	76°03'	4927500	417150
04	Fernberg	Northwestern	506	47°30'	91°52'	5316000	585000

PART III

SOUTHWESTERN REGION DAILY AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR SO2

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,83	JAN 1,83	800	800	1	28950.0	15697	2	1		
JAN 3,83	JAN 2,83	800	800	1	28840.0	15698	2	1	D	
JAN 4,83	JAN 3,83	800	800	1	28800.0	15699	2	1		
JAN 6,83	JAN 5,83	800	800	1	28020.0	15702	2	1		
JAN 7,83	JAN 6,83	800	800	1	27720.0	15703	2	1		
JAN 8,83	JAN 7,83	800	800	1	28020.0	15704	2	1		
JAN 9,83	JAN 8,83	800	800	1	28210.0	15705	2	1		
JAN 10,83	JAN 9,83	800	800	1	29160.0	15706	2	1		
JAN 11,83	JAN 10,83	800	800	1	26630.0	15707	2	1		
JAN 12,83	JAN 11,83	800	800	1	27450.0	15709	2	1		
JAN 13,83	JAN 12,83	800	800	1	29200.0	15710	2	1		
JAN 14,83	JAN 13,83	800	800	1	26050.0	15711	2	1		
JAN 15,83	JAN 14,83	800	800	1	25840.0	15712	2	1		
JAN 16,83	JAN 15,83	800	800	1	28110.0	15713	2	1		
JAN 17,83	JAN 16,83	800	800	1	30430.0	15714	2	1		
JAN 18,83	JAN 17,83	800	800	1	30600.0	15715	2	1		
JAN 19,83	JAN 18,83	800	800	1	27790.0	15717	2	1		
JAN 20,83	JAN 19,83	800	800	1	24690.0	15718	2	1		
JAN 21,83	JAN 20,83	800	800	1	27560.0	15719	2	1		
JAN 22,83	JAN 21,83	800	800	1	26910.0	15720	2	1		
JAN 23,83	JAN 22,83	800	800	1	24960.0	15721	2	1		
JAN 24,83	JAN 23,83	800	800	1	23630.0	15722	2	1		
JAN 25,83	JAN 24,83	800	800	1	22720.0	15723	2	1		
JAN 26,83	JAN 25,83	800	800	1	28030.0	15725	2	1		
JAN 27,83	JAN 26,83	800	800	1	28050.0	15726	2	1		
JAN 28,83	JAN 27,83	800	800	1	28220.0	15727	2	1		
JAN 29,83	JAN 28,83	800	800	1	26730.0	15728	2	1		
JAN 30,83	JAN 29,83	800	800	1	26620.0	15729	2	1		
JAN 31,83	JAN 30,83	800	800	1	25160.0	15730	2	1		
FEB 1,83	JAN 31,83	800	800	1	27200.0	15731	2	1		
FEB 2,83	FEB 1,83	800	800	1	27580.0	15733	2	1		
FEB 3,83	FEB 2,83	800	800	1	21390.0	15734	2	1		
FEB 4,83	FEB 3,83	800	800	1	26670.0	15735	2	1		
FEB 5,83	FEB 4,83	800	800	1	28400.0	15736	2	1		
FEB 6,83	FEB 5,83	800	800	1	28290.0	15737	2	1		
FEB 7,83	FEB 6,83	800	800	1	27760.0	15738	2	1		
FEB 8,83	FEB 7,83	800	800	1	28240.0	15739	2	1		
FEB 9,83	FEB 8,83	800	800	1	28790.0	15741	2	1		
FEB 10,83	FEB 9,83	800	800	1	29020.0	15742	2	1		
FEB 11,83	FEB 10,83	800	800	1	28890.0	15743	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
JAN 2,83	JAN 1,83	2.06		1.55	0.05		0.427	0.24	0.29
JAN 3,83	JAN 2,83	4.08		1.47	0.04		0.439	0.59	0.63
JAN 4,83	JAN 3,83	47.19		4.69	0.37		1.482	0.95	1.33
JAN 6,83	JAN 5,83	26.85		7.10	0.08		2.001	1.89	1.97
JAN 7,83	JAN 6,83	20.87		7.86	1.07		1.532	0.33	1.41
JAN 8,83	JAN 7,83	11.23		3.35	0.14		0.962	0.19	0.32
JAN 9,83	JAN 8,83	10.51		3.90	0.26		1.044	0.66	0.91
JAN 10,83	JAN 9,83	17.51		4.46	0.73		1.261	0.02	0.75
JAN 11,83	JAN 10,83	9.17		2.49	0.29		0.780	0.24	0.54
JAN 12,83	JAN 11,83	3.56		2.19	0.00		0.316	0.38	0.38
JAN 13,83	JAN 12,83	3.00		1.54	0.01		0.587	0.39	0.41
JAN 14,83	JAN 13,83	18.27		4.80	0.46		1.886	1.31	1.76
JAN 15,83	JAN 14,83	35.95		4.41	0.56		1.592	0.46	1.02
JAN 16,83	JAN 15,83	12.91		3.91	0.71		1.047	0.12	0.82
JAN 17,83	JAN 16,83	1.97		0.78	0.04		0.366	0.21	0.24
JAN 18,83	JAN 17,83	1.35		0.82	0.01		0.232	0.07	0.08
JAN 19,83	JAN 18,83	0.43		0.90	0.00		0.263	0.04	0.04
JAN 20,83	JAN 19,83	1.11		1.82	0.00		0.504	0.21	0.21
JAN 21,83	JAN 20,83	27.68		2.36	0.00		0.778	0.56	0.56
JAN 22,83	JAN 21,83	22.92		2.65	0.08		1.168	0.84	0.92
JAN 23,83	JAN 22,83	16.35		2.05	0.23		0.066	0.74	0.97
JAN 24,83	JAN 23,83	20.69		6.18	1.11		1.965	0.08	1.20
JAN 25,83	JAN 24,83	13.21		7.75	0.81		2.583	0.67	1.48
JAN 26,83	JAN 25,83	4.10		3.57	0.02		0.965	0.26	0.28
JAN 27,83	JAN 26,83	1.73		3.48	0.00		0.613	0.53	0.53
JAN 28,83	JAN 27,83	3.00		3.58	0.00		0.322	0.66	0.66
JAN 29,83	JAN 28,83	******		6.44	1.39		3.037	0.20	1.59
JAN 30,83	JAN 29,83	******	G	16.83	1.10	G	3.792	0.04	1.13
JAN 31,83	JAN 30,83	13.73		5.37	0.46		0.931	0.29	0.75
FEB 1,83	JAN 31,83	14.57		8.38	0.54		1.027	0.30	0.84
FEB 2,83	FEB 1,83	16.99		5.37	0.39		1.684	0.31	0.70
FEB 3,83	FEB 2,83	6.62		3.62	0.21		1.126	0.62	0.83
FEB 4,83	FEB 3,83	15.97		3.38	0.35		0.542	0.15	0.50
FEB 5,83	FEB 4,83	1.12		1.50	0.02		0.456	0.28	0.30
FEB 6,83	FEB 5,83	11.23		3.85	0.42		0.272	0.88	1.31
FEB 7,83	FEB 6,83	21.49		4.36	0.62		1.385	1.28	1.90
FEB 8,83	FEB 7,83	7.06		4.39	0.50		0.955	0.69	1.19
FEB 9,83	FEB 8,83	9.18		5.57	0.56		1.993	0.73	1.30
FEB 10,83	FEB 9,83	5.76		3.04	0.04		0.577	0.52	0.57
FEB 11,83	FEB 10,83	6.93		2.79	0.05		0.545	0.43	0.49

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
FEB 12,83	FEB 11,83	800	800	1	28660.0	15744	2	1		
FEB 13,83	FEB 12,83	800	800	1	28510.0	15745	2	1		
FEB 14,83	FEB 13,83	800	800	1	26110.0	15746	2	1		
FEB 15,83	FEB 14,83	800	800	1	27420.0	15747	2	1		
FEB 16,83	FEB 15,83	800	800	1	26320.0	15749	2	1		
FEB 17,83	FEB 16,83	800	800	1	25460.0	15750	2	1		
FEB 18,83	FEB 17,83	800	800	1	26380.0	15751	2	1		
FEB 19,83	FEB 18,83	800	800	1	27090.0	15752	2	1		
FEB 21,83	FEB 20,83	800	800	1	27470.0	15754	2	1		
FEB 22,83	FEB 21,83	800	800	1	25250.0	15755	2	1		
FEB 23,83	FEB 22,83	800	800	1	26310.0	15757	2	1		
FEB 24,83	FEB 23,83	800	800	1	26680.0	15758	2	1		
FEB 25,83	FEB 24,83	800	800	1	27940.0	15759	2	1		
FEB 26,83	FEB 25,83	800	800	1	27610.0	15760	2	1		
FEB 27,83	FEB 26,83	800	800	1	28620.0	15761	2	1		
FEB 28,83	FEB 27,83	800	800	1	27900.0	15762	2	1		
MAR 1,83	FEB 28,83	800	800	1	27790.0	15763	2	1		
MAR 2,83	MAR 1,83	800	800	1	28210.0	15765	2	1		
MAR 3,83	MAR 2,83	800	800	1	26420.0	15766	2	1		
MAR 4,83	MAR 3,83	800	800	1	26870.0	15767	2	1		
MAR 5,83	MAR 4,83	800	800	1	24630.0	15768	2	1		
MAR 6,83	MAR 5,83	800	800	1	26840.0	15769	2	1		
MAR 7,83	MAR 6,83	800	800	1	25350.0	15770	2	1		
MAR 8,83	MAR 7,83	800	800	1	25570.0	15771	2	1		
MAR 9,83	MAR 8,83	800	800	1	26890.0	15773	2	1		
MAR 10,83	MAR 9,83	800	800	1	27250.0	15774	2	1		
MAR 11,83	MAR 10,83	800	800	1	27490.0	15775	2	1		
MAR 12,83	MAR 11,83	800	800	1	28220.0	15776	2	1		
MAR 13,83	MAR 12,83	800	800	1	28510.0	15777	2	1		
MAR 14,83	MAR 13,83	800	800	1	27440.0	15778	2	1		
MAR 15,83	MAR 14,83	800	700	1	********	15779	2	1	FA	
MAR 16,83	MAR 15,83	800	800	1	27610.0	15781	2	1		
MAR 17,83	MAR 16,83	800	800	1	28120.0	15782	2	1		
MAR 18,83	MAR 17,83	800	800	1	28010.0	15783	2	1		
MAR 19,83	MAR 18,83	800	800	1	25620.0	15784	2	1		
MAR 20,83	MAR 19,83	800	800	1	25560.0	15785	2	1		
MAR 21,83	MAR 20,83	800	800	1	28390.0	15786	2	1		
MAR 22,83	MAR 21,83	800	800	1	28080.0	15787	2	1		
MAR 23,83	MAR 22,83	800	800	1	28950.0	15789	2	1		
MAR 24,83	MAR 23,83	800	800	1	28260.0	15790	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR

#02

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
FEB 12,83	FEB 11,83		12.35		3.43		0.05		0.661		0.71		0.76
FEB 13,83	FEB 12,83		16.12		5.03		0.15		1.971		1.63		1.78
FEB 14,83	FEB 13,83		38.03		12.04		2.61		2.918		0.00		2.61
FEB 15,83	FEB 14,83		29.75	G	19.38		1.67	G	6.599		1.03		2.70
FEB 16,83	FEB 15,83	U	5.45	U	14.37	U	0.67	U	6.066	U	2.24	U	2.91
FEB 17,83	FEB 16,83		45.44	G	23.13		2.05	G	4.625	<W	0.00		2.05
FEB 18,83	FEB 17,83		6.31		4.47		0.62		0.174		0.27		0.88
FEB 19,83	FEB 18,83		6.70		3.19		0.81		0.077		0.08		0.89
FEB 21,83	FEB 20,83		50.36		11.32		2.03	G	3.704		0.69		2.72
FEB 22,83	FEB 21,83		2.53		3.82		0.14		1.990		0.71		0.85
FEB 23,83	FEB 22,83		15.23		6.45		1.25		2.382		0.57		1.82
FEB 24,83	FEB 23,83		0.90		2.06		0.13		0.453		0.13		0.26
FEB 25,83	FEB 24,83		0.62		1.52		0.07		0.447		0.27		0.33
FEB 26,83	FEB 25,83		4.22		2.44		0.02		0.600		0.09		0.11
FEB 27,83	FEB 26,83		5.42		2.18		0.15		1.082		0.67		0.82
FEB 28,83	FEB 27,83		9.25		3.54		0.38		2.257		1.51		1.88
MAR 1,83	FEB 28,83		51.70		7.77		0.78		3.310		1.44		2.21
MAR 2,83	MAR 1,83	U	28.00	U	13.01	U	0.45	U	1.058	U	4.68	U	5.13
MAR 3,83	MAR 2,83		******		7.23		0.22		1.566		1.74		1.96
MAR 4,83	MAR 3,83		10.53		7.15		0.16		3.456		1.62		1.78
MAR 5,83	MAR 4,83		9.19		6.17		0.14		2.065		1.94		2.07
MAR 6,83	MAR 5,83		12.14		6.37		0.44		3.300		1.96		2.40
MAR 7,83	MAR 6,83		8.30		6.86		0.41		2.192		0.31		0.71
MAR 8,83	MAR 7,83		19.73		4.30		0.44		1.149		1.02		1.47
MAR 9,83	MAR 8,83		7.80		3.28		0.45		1.337		0.58		1.03
MAR 10,83	MAR 9,83		25.57		7.69		0.43		2.690		0.86		1.29
MAR 11,83	MAR 10,83		2.89		4.16		0.08		1.303		0.53		0.61
MAR 12,83	MAR 11,83		0.68		1.93		0.02		0.525		0.08		0.10
MAR 13,83	MAR 12,83		1.00		0.81		0.03		0.258		0.03		0.06
MAR 14,83	MAR 13,83		10.04		2.57		0.28		1.797		1.21		1.48
MAR 15,83	MAR 14,83		******		******		******		******		******		******
MAR 16,83	MAR 15,83		0.76		1.97		0.03		0.515		0.17		0.20
MAR 17,83	MAR 16,83		10.31		5.48		0.36		2.026		0.97		1.33
MAR 18,83	MAR 17,83		11.37		8.25		1.29		2.051		0.48		1.77
MAR 19,83	MAR 18,83		6.76		4.45		0.25		1.443		0.49		0.74
MAR 20,83	MAR 19,83		2.13		1.37		0.03		0.605		0.06		0.10
MAR 21,83	MAR 20,83		2.09		3.21		0.09		0.851		0.07		0.16
MAR 22,83	MAR 21,83		3.70		1.69		0.07		0.486		0.09		0.16
MAR 23,83	MAR 22,83		1.24		2.29		0.05		0.608		0.06		0.11
MAR 24,83	MAR 23,83		2.63		2.74		0.11		0.848		0.35		0.47

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
MAR 25,83	MAR 24,83	800	800	1	28240.0	15791	2	1		
MAR 26,83	MAR 25,83	800	800	1	27540.0	15792	2	1		
MAR 27,83	MAR 26,83	800	800	1	27430.0	15793	2	1		
MAR 28,83	MAR 27,83	800	800	1	22350.0	15794	2	1		
MAR 29,83	MAR 28,83	800	800	1	26040.0	15795	2	1		
MAR 30,83	MAR 29,83	800	800	1	28420.0	15797	2	1		
MAR 31,83	MAR 30,83	1230	800	1	23510.0	15798	2	1		
APR 1,83	MAR 31,83	800	800	1	28310.0	15799	2	1		
APR 2,83	APR 1,83	800	800	1	28200.0	15800	2	1		
APR 3,83	APR 2,83	800	800	1	28020.0	15801	2	1		
APR 4,83	APR 3,83	800	800	1	25030.0	15802	2	1		
APR 5,83	APR 4,83	800	800	1	27540.0	15803	2	1		
APR 6,83	APR 5,83	800	800	1	28680.0	15805	2	1		
APR 7,83	APR 6,83	800	800	1	26290.0	15806	2	1		
APR 8,83	APR 7,83	800	800	1	26500.0	15807	2	1		
APR 9,83	APR 8,83	800	800	1	27840.0	15808	2	1		
APR 10,83	APR 9,83	800	800	1	26430.0	15809	2	1		
APR 11,83	APR 10,83	800	800	1	26210.0	15810	2	1		
APR 12,83	APR 11,83	800	800	1	26590.0	15811	2	1		
APR 13,83	APR 12,83	800	800	1	29210.0	15813	2	1		
APR 14,83	APR 13,83	800	800	1	27010.0	15814	2	1		
APR 15,83	APR 14,83	800	800	1	26400.0	15815	2	1		
APR 16,83	APR 15,83	800	800	1	28250.0	15816	2	1		
APR 17,83	APR 16,83	800	800	1	27940.0	15817	2	1		
APR 18,83	APR 17,83	800	800	1	27300.0	15818	2	1		
APR 19,83	APR 18,83	800	800	1	28320.0	15819	2	1		
APR 20,83	APR 19,83	800	800	1	30690.0	15821	2	1		
APR 21,83	APR 20,83	800	800	1	28460.0	15822	2	1		
APR 22,83	APR 21,83	800	800	1	27570.0	15823	2	1		
APR 23,83	APR 22,83	800	800	1	27280.0	15824	2	1		
APR 24,83	APR 23,83	800	800	1	27870.0	15825	2	1		
APR 25,83	APR 24,83	800	800	1	28020.0	15826	2	1		
APR 26,83	APR 25,83	800	800	1	28800.0	15827	2	1		
APR 27,83	APR 26,83	800	800	1	29790.0	15829	2	1		
APR 28,83	APR 27,83	800	800	1	27990.0	15830	2	1		
APR 29,83	APR 28,83	800	800	1	25920.0	15831	2	1		
APR 30,83	APR 29,83	800	800	1	27240.0	15832	2	1		
MAY 1,83	APR 30,83	800	800	1	25150.0	15833	2	1		
MAY 2,83	MAY 1,83	800	800	1	26290.0	15834	2	1		
MAY 3,83	MAY 2,83	800	800	1	26800.0	15835	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
MAR 25,83	MAR 24,83	2.01	2.30	0.07	0.583	0.28	0.35
MAR 26,83	MAR 25,83	10.10	3.31	0.19	1.215	0.85	1.04
MAR 27,83	MAR 26,83	24.39	3.51	0.35	1.530	1.00	1.35
MAR 28,83	MAR 27,83	10.28	3.07	0.40	1.049	0.39	0.79
MAR 29,83	MAR 28,83	4.47	3.07	0.31	0.901	0.09	0.39
MAR 30,83	MAR 29,83	4.21	1.63	0.17	0.544	<W 0.01	0.17
MAR 31,83	MAR 30,83	15.14	3.24	0.09	1.134	0.72	0.82
APR 1,83	MAR 31,83	15.26	4.59	0.26	0.555	1.11	1.37
APR 2,83	APR 1,83	18.31	3.41	0.52	1.106	0.42	0.93
APR 3,83	APR 2,83	10.58	3.71	0.21	1.695	0.90	1.11
APR 4,83	APR 3,83	7.88	3.10	0.28	0.787	0.57	0.85
APR 5,83	APR 4,83	10.02	4.43	0.22	1.725	0.44	0.66
APR 6,83	APR 5,83	3.43	3.31	0.14	0.877	0.26	0.40
APR 7,83	APR 6,83	14.83	7.07	0.61	1.364	0.82	1.42
APR 8,83	APR 7,83	15.96	7.93	1.09	> 3.761	0.04	1.13
APR 9,83	APR 8,83	5.48	4.49	0.12	0.940	0.29	0.41
APR 10,83	APR 9,83	6.28	3.97	0.56	1.065	0.02	0.58
APR 11,83	APR 10,83	3.93	5.72	0.78	1.551	0.06	0.84
APR 12,83	APR 11,83	2.31	4.51	0.30	1.371	0.04	0.34
APR 13,83	APR 12,83	4.78	2.95	0.12	0.827	0.16	0.28
APR 14,83	APR 13,83	27.69	8.37	0.80	> 3.686	0.02	0.82
APR 15,83	APR 14,83	14.53	5.45	0.46	1.158	0.02	0.48
APR 16,83	APR 15,83	14.15	5.38	0.42	1.217	0.34	0.76
APR 17,83	APR 16,83	3.82	2.55	0.35	0.683	0.22	0.57
APR 18,83	APR 17,83	4.35	2.11	0.28	0.526	<W 0.01	0.28
APR 19,83	APR 18,83	2.74	2.25	0.10	0.578	<W 0.01	0.10
APR 20,83	APR 19,83	1.80	1.51	0.06	0.407	0.02	0.07
APR 21,83	APR 20,83	2.53	2.02	0.05	0.597	0.10	0.15
APR 22,83	APR 21,83	2.73	2.31	0.14	0.609	0.15	0.29
APR 23,83	APR 22,83	7.40	3.02	0.19	0.770	0.46	0.65
APR 24,83	APR 23,83	3.12	2.73	0.22	0.789	0.28	0.50
APR 25,83	APR 24,83	3.28	2.05	0.05	0.607	0.05	0.11
APR 26,83	APR 25,83	5.17	1.30	0.09	0.434	0.13	0.22
APR 27,83	APR 26,83	9.30	4.77	0.47	0.243	0.81	1.27
APR 28,83	APR 27,83	7.75	5.36	0.48	0.000	0.79	1.27
APR 29,83	APR 28,83	9.46	2.99	0.11	0.736	0.26	0.37
APR 30,83	APR 29,83	9.03	5.18	0.20	> 3.608	1.10	1.30
MAY 1,83	APR 30,83	4.77	1.59	0.12	0.576	0.15	0.26
MAY 2,83	MAY 1,83	5.73	0.76	0.26	0.220	0.04	0.30
MAY 3,83	MAY 2,83	6.86	2.28	0.28	0.626	0.08	0.36

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
MAY 4,83	MAY 3,83	800	800	1	29200.0	15837	2	1		
MAY 5,83	MAY 4,83	800	800	1	28120.0	15838	2	1		
MAY 6,83	MAY 5,83	800	800	1	28160.0	15839	2	1		
MAY 7,83	MAY 6,83	800	800	1	25500.0	15840	2	1		
MAY 8,83	MAY 7,83	800	800	1	26240.0	15841	2	1		
MAY 9,83	MAY 8,83	800	800	1	28700.0	15842	2	1		
MAY 10,83	MAY 9,83	800	800	1	26380.0	15843	2	1		
MAY 11,83	MAY 10,83	800	800	1	28460.0	15845	2	1		
MAY 12,83	MAY 11,83	830	800	1	25390.0	15846	2	1		
MAY 13,83	MAY 12,83	800	800	1	28080.0	15847	2	1		
MAY 14,83	MAY 13,83	800	800	1	25340.0	15848	2	1		
MAY 15,83	MAY 14,83	800	800	1	26750.0	15849	2	1		
MAY 16,83	MAY 15,83	800	800	1	28380.0	15850	2	1		
MAY 17,83	MAY 16,83	800	800	1	28650.0	15851	2	1		
MAY 18,83	MAY 17,83	800	800	1	32110.0	15853	2	1	E	
MAY 19,83	MAY 18,83	800	800	1	26330.0	15854	2	1		
MAY 20,83	MAY 19,83	800	800	1	25270.0	15855	2	1		
MAY 21,83	MAY 20,83	800	800	1	24560.0	15856	2	1		
MAY 22,83	MAY 21,83	800	800	1	25090.0	15857	2	1		
MAY 23,83	MAY 22,83	800	800	1	26230.0	15858	2	1		
MAY 24,83	MAY 23,83	800	800	1	25570.0	15859	2	1		
MAY 25,83	MAY 24,83	800	800	1	30910.0	15861	2	1		
MAY 26,83	MAY 25,83	800	800	1	27290.0	15862	2	1		
MAY 27,83	MAY 26,83	800	800	1	27850.0	15863	2	1		
MAY 28,83	MAY 27,83	800	800	1	25780.0	15864	2	1		
MAY 29,83	MAY 28,83	800	800	1	25970.0	15865	2	1		
MAY 30,83	MAY 29,83	800	800	1	25510.0	15866	2	1		
MAY 31,83	MAY 30,83	800	800	1	27320.0	15867	2	1		
JUN 1,83	MAY 31,83	800	800	1	29900.0	15869	2	1		
JUN 2,83	JUN 1,83	800	800	1	25330.0	15870	2	1		
JUN 3,83	JUN 2,83	800	800	1	26150.0	15871	2	1		
JUN 4,83	JUN 3,83	800	800	1	24700.0	15872	2	1		
JUN 5,83	JUN 4,83	800	800	1	25090.0	15873	2	1		
JUN 6,83	JUN 5,83	800	800	1	26090.0	15874	2	1		
JUN 7,83	JUN 6,83	800	800	1	26100.0	15875	2	1		
JUN 8,83	JUN 7,83	800	800	1	26100.0	15877	2	1		
JUN 9,83	JUN 8,83	800	800	1	28610.0	15878	2	1		
JUN 10,83	JUN 9,83	800	800	1	27570.0	15879	2	1		
JUN 11,83	JUN 10,83	800	800	1	26000.0	15880	2	1		
JUN 12,83	JUN 11,83	800	800	1	23640.0	15881	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
MAY 4,83	MAY 3,83	3.67	1.83	0.10	0.485	<N 0.01	0.10
MAY 5,83	MAY 4,83	6.43	2.49	0.35	0.667	0.22	0.58
MAY 6,83	MAY 5,83	3.29	2.49	0.17	0.602	0.62	0.79
MAY 7,83	MAY 6,83	21.44	4.63	1.04	1.488	0.32	1.37
MAY 8,83	MAY 7,83	5.37	******	0.20	******	******	******
MAY 9,83	MAY 8,83	5.26	2.35	0.06	0.643	0.03	0.09
MAY 10,83	MAY 9,83	7.99	2.13	0.08	0.726	0.28	0.36
MAY 11,83	MAY 10,83	3.79	1.45	0.21	> 1.755	0.14	0.35
MAY 12,83	MAY 11,83	12.09	3.89	0.52	P 1.967	0.93	1.44
MAY 13,83	MAY 12,83	12.17	5.27	0.65	P 1.781	0.93	1.57
MAY 14,83	MAY 13,83	5.10	1.88	0.23	P 1.973	0.47	0.71
MAY 15,83	MAY 14,83	4.67	4.78	0.53	P 1.869	0.67	1.19
MAY 16,83	MAY 15,83	0.32	0.79	0.06	P 1.762	<N 0.01	0.06
MAY 17,83	MAY 16,83	5.08	2.27	0.13	P 1.745	0.07	0.20
MAY 18,83	MAY 17,83	3.22	2.91	0.08	P 1.071	0.41	0.50
MAY 19,83	MAY 18,83	7.43	4.86	0.26	0.148	0.63	0.89
MAY 20,83	MAY 19,83	9.61	6.05	0.38	0.101	0.32	0.70
MAY 21,83	MAY 20,83	0.48	10.38	0.86	> 3.436	0.47	1.33
MAY 22,83	MAY 21,83	9.42	14.67	1.24	> 9.342	1.16	2.41
MAY 23,83	MAY 22,83	6.16	5.11	0.45	8.936	0.18	0.63
MAY 24,83	MAY 23,83	3.36	2.20	0.23	1.189	0.04	0.27
MAY 25,83	MAY 24,83	0.17	1.68	0.27	******	0.23	0.49
MAY 26,83	MAY 25,83	2.76	1.58	0.16	******	0.08	0.24
MAY 27,83	MAY 26,83	2.46	1.73	0.11	******	0.08	0.19
MAY 28,83	MAY 27,83	4.81	6.47	0.25	******	0.69	0.94
MAY 29,83	MAY 28,83	18.90	9.04	1.11	******	0.65	1.75
MAY 30,83	MAY 29,83	5.63	4.69	0.45	******	0.35	0.80
MAY 31,83	MAY 30,83	6.31	3.28	0.29	******	0.30	0.59
JUN 1,83	MAY 31,83	3.24	2.53	0.21	******	0.19	0.40
[illegible],83	JUN 1,83	0.06	0.08	0.20	******	0.02	0.22
JUN 3,83	JUN 2,83	6.53	7.55	0.81	******	0.80	1.62
JUN 4,83	JUN 3,83	9.32	9.65	0.76	******	0.89	1.65
JUN 5,83	JUN 4,83	5.27	15.60	1.44	******	0.27	1.71
JUN 6,83	JUN 5,83	1.81	3.77	0.48	******	0.12	0.61
JUN 7,83	JUN 6,83	4.79	2.28	0.29	******	0.22	0.51
JUN 8,83	JUN 7,83	3.19	1.65	0.20	******	0.12	0.32
JUN 9,83	JUN 8,83	1.05	1.05	0.12	******	0.20	0.32
JUN 10,83	JUN 9,83	12.35	6.53	0.88	******	0.30	1.19
JUN 11,83	JUN 10,83	4.79	7.92	1.38	******	0.16	1.53
JUN 12,83	JUN 11,83	8.92	14.81	1.81	******	0.93	2.74

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUN 13,83	JUN 12,83	800	800	1	26690.0	15882	2	1		
JUN 14,83	JUN 13,83	800	800	1	27080.0	15883	2	1		
JUN 16,83	JUN 15,83	800	800	1	27270.0	15886	2	1		
JUN 17,83	JUN 16,83	800	800	1	24960.0	15887	2	1		
JUN 18,83	JUN 17,83	800	800	1	28050.0	15888	2	1		
JUN 19,83	JUN 18,83	800	800	1	29550.0	15889	2	1		
JUN 20,83	JUN 19,83	800	800	1	27790.0	15890	2	1		
JUN 21,83	JUN 20,83	800	800	1	28080.0	15891	2	1		
JUN 22,83	JUN 21,83	800	800	1	31240.0	15893	2	1		
JUN 23,83	JUN 22,83	800	800	1	27610.0	15894	2	1		
JUN 24,83	JUN 23,83	800	800	1	27420.0	15895	2	1	D	
JUN 25,83	JUN 24,83	800	800	1	27430.0	15896	2	1		
JUN 26,83	JUN 25,83	800	800	1	28980.0	15897	2	1		
JUN 27,83	JUN 26,83	800	800	1	27170.0	15898	2	1		
JUN 28,83	JUN 27,83	800	800	1	25510.0	15899	2	1		
JUN 29,83	JUN 28,83	800	800	1	28590.0	15901	2	1		
JUN 30,83	JUN 29,83	845	800	1	26720.0	15902	2	1		
JUL 1,83	JUN 30,83	800	800	1	22830.0	15903	2	1		
JUL 2,83	JUL 1,83	800	800	1	25750.0	15904	2	1		
JUL 3,83	JUL 2,83	800	800	1	28610.0	15905	2	1		
JUL 4,83	JUL 3,83	800	800	1	25930.0	15906	2	1		
JUL 5,83	JUL 4,83	800	800	1	25860.0	15907	2	1		
JUL 6,83	JUL 5,83	800	800	1	30990.0	15909	2	1		
JUL 7,83	JUL 6,83	800	800	1	27390.0	15910	2	1		
JUL 8,83	JUL 7,83	800	800	1	26880.0	15911	2	1		
JUL 9,83	JUL 8,83	800	800	1	27640.0	15912	2	1		
JUL 10,83	JUL 9,83	800	800	1	29280.0	15913	2	1		
JUL 11,83	JUL 10,83	800	800	1	26700.0	15914	2	1		
JUL 12,83	JUL 11,83	800	800	1	26890.0	15915	2	1		
JUL 13,83	JUL 12,83	800	800	1	27850.0	15917	2	1		
JUL 14,83	JUL 13,83	800	800	1	27570.0	15918	2	1	C	
JUL 15,83	JUL 14,83	800	800	1	27200.0	15919	2	1		
JUL 16,83	JUL 15,83	800	800	1	26700.0	15920	2	1		
JUL 17,83	JUL 16,83	800	800	1	28010.0	15921	2	1		
JUL 18,83	JUL 17,83	800	800	1	25950.0	15922	2	1		
JUL 19,83	JUL 18,83	800	800	1	29910.0	15923	2	1		
JUL 20,83	JUL 19,83	800	800	1	27070.0	15931	2	1		
JUL 21,83	JUL 20,83	800	800	1	26180.0	15925	2	1		
JUL 22,83	JUL 21,83	800	800	1	25330.0	15926	2	1	C	
JUL 23,83	JUL 22,83	800	800	1	26320.0	15927	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 002 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
JUN 13,83	JUN 12,83	12.12		31.66	2.12	******		0.26	2.38
JUN 14,83	JUN 13,83	19.19	G	37.59	2.05	******		0.63	2.68
JUN 16,83	JUN 15,83	6.98		6.89	0.99	******		0.30	1.29
JUN 17,83	JUN 16,83	16.88		10.22	1.51	2.224		0.62	2.14
JUN 18,83	JUN 17,83	1.78		2.00	0.42	0.464		0.33	0.75
JUN 19,83	JUN 18,83	2.05		1.41	0.37	0.305		0.28	0.66
JUN 20,83	JUN 19,83	11.33		8.10	0.98	1.835		0.86	1.84
JUN 21,83	JUN 20,83	10.21		4.45	0.79	1.610		0.50	1.29
JUN 22,83	JUN 21,83	5.24		2.74	0.51	0.615		0.27	0.78
JUN 23,83	JUN 22,83	8.32		8.57	0.70	1.974		0.39	1.09
JUN 24,83	JUN 23,83	9.98		9.55	1.11	2.170		0.40	1.51
JUN 25,83	JUN 24,83	2.06		0.75	0.17	0.201		0.18	0.35
JUN 26,83	JUN 25,83	1.95		0.92	0.15	0.185		0.16	0.30
JUN 27,83	JUN 26,83	11.35		16.66	1.21	3.791		0.40	1.61
JUN 28,83	JUN 27,83	4.91		13.59	0.54	3.489		0.37	0.91
JUN 29,83	JUN 28,83	3.05		1.07	0.28	0.227		0.28	0.56
JUN 30,83	JUN 29,83	8.54		2.57	0.57	0.415		0.21	0.77
JUL 1,83	JUN 30,83	19.68		8.94	1.63	1.526	<T	0.01	1.63
JUL 2,83	JUL 1,83	7.91		2.52	1.23	0.285		0.05	1.28
JUL 3,83	JUL 2,83	7.87		2.36	1.01	0.501		0.09	1.10
JUL 4,83	JUL 3,83	8.86		4.28	1.19	0.350		0.14	1.34
JUL 5,83	JUL 4,83	5.22		6.15	0.40	0.096		0.30	0.70
JUL 6,83	JUL 5,83	0.14	<W	0.04	0.06	0.087	<W	0.01	0.06
JUL 7,83	JUL 6,83	0.47		0.27	0.13	0.204		0.03	0.15
JUL 8,83	JUL 7,83	13.62		5.77	0.82	0.727		0.41	1.22
JUL 9,83	JUL 8,83	16.11		9.01	1.19	1.801		0.62	1.81
JUL 10,83	JUL 9,83	1.04		5.29	0.25	0.420		0.07	0.31
JUL 11,83	JUL 10,83	1.27		0.09	0.19	0.217	<T	0.01	0.19
JUL 12,83	JUL 11,83	8.48		10.97	0.70	******		0.80	1.50
JUL 13,83	JUL 12,83	1.85		3.63	0.29	0.691		0.25	0.54
JUL 14,83	JUL 13,83	2.35		1.05	0.14	0.344		0.15	0.29
JUL 15,83	JUL 14,83	37.35		16.84	2.15	2.426		0.74	2.89
JUL 16,83	JUL 15,83	8.84	G	40.07	1.25	4.110		0.31	1.56
JUL 17,83	JUL 16,83	2.95		24.10	0.59	4.703		0.36	0.95
JUL 18,83	JUL 17,83	2.86		3.32	0.30	0.867		0.04	0.34
JUL 19,83	JUL 18,83	0.39		1.88	0.13	0.493		0.08	0.22
JUL 20,83	JUL 19,83	1.30		0.65	0.04	0.259		0.03	0.07
JUL 21,83	JUL 20,83	5.98		8.36	0.97	1.775		0.18	1.15
JUL 22,83	JUL 21,83	4.49		11.65	1.34	1.469		0.16	1.50
JUL 23,83	JUL 22,83	1.41		2.52	0.34	0.388		0.11	0.45

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUL 24,83	JUL 23,83	800	800	1	26180.0	15928	2	1		
JUL 25,83	JUL 24,83	800	800	1	33590.0	15929	2	1	C	
JUL 26,83	JUL 25,83	800	800	1	26760.0	15930	2	1		
JUL 27,83	JUL 26,83	800	800	1	25630.0	15933	2	1		
JUL 28,83	JUL 27,83	800	800	1	25770.0	15934	2	1		
JUL 29,83	JUL 28,83	800	800	1	25660.0	15935	2	1		
JUL 30,83	JUL 29,83	800	800	1	24090.0	15936	2	1		
JUL 31,83	JUL 30,83	800	800	1	24430.0	15937	2	1		
AUG 1,83	JUL 31,83	800	800	1	24610.0	15938	2	1		
AUG 2,83	AUG 1,83	800	800	1	25940.0	15939	2	1		
AUG 3,83	AUG 2,83	800	800	1	25470.0	15940	2	1		
AUG 4,83	AUG 3,83	800	800	1	25880.0	15942	2	1		
AUG 5,83	AUG 4,83	800	800	1	24900.0	15943	2	1		
AUG 6,83	AUG 5,83	800	800	1	24590.0	15944	2	1		
AUG 7,83	AUG 6,83	800	800	1	25530.0	15945	2	1		
AUG 8,83	AUG 7,83	800	800	1	25490.0	15946	2	1		
AUG 9,83	AUG 8,83	800	800	1	25770.0	15947	2	1		
AUG 10,83	AUG 9,83	800	800	1	25930.0	15949	2	1		
AUG 11,83	AUG 10,83	800	800	1	25880.0	15950	2	1		
AUG 12,83	AUG 11,83	800	800	1	26250.0	15951	2	1		
AUG 13,83	AUG 12,83	800	800	1	26230.0	15952	2	1		
AUG 14,83	AUG 13,83	800	800	1	25260.0	15953	2	1		
AUG 15,83	AUG 14,83	800	800	1	26310.0	15954	2	1		
AUG 16,83	AUG 15,83	800	800	1	25750.0	15955	2	1		
AUG 17,83	AUG 16,83	800	800	1	25050.0	15957	2	1		
AUG 18,83	AUG 17,83	800	800	1	24320.0	15958	2	1		
AUG 19,83	AUG 18,83	800	800	1	25370.0	15959	2	1		
AUG 20,83	AUG 19,83	800	800	1	26480.0	15960	2	1		
AUG 21,83	AUG 20,83	800	800	1	26570.0	15961	2	1		
AUG 22,83	AUG 21,83	800	800	1	25890.0	15962	2	1		
AUG 23,83	AUG 22,83	800	800	1	24600.0	15963	2	1		
AUG 24,83	AUG 23,83	800	800	1	26260.0	15965	2	1		
AUG 25,83	AUG 24,83	800	800	1	27220.0	15966	2	1	C	
AUG 26,83	AUG 25,83	800	800	1	25000.0	15967	2	1	D	
AUG 27,83	AUG 26,83	800	800	1	24150.0	15968	2	1	D	
AUG 28,83	AUG 27,83	800	800	1	24760.0	15969	2	1		
AUG 29,83	AUG 28,83	800	800	1	24850.0	15970	2	1		
AUG 30,83	AUG 29,83	800	800	1	24950.0	15971	2	1		
AUG 31,83	AUG 30,83	800	800	1	23950.0	15973	2	1		
SEP 1,83	AUG 31,83	800	800	1	25580.0	15974	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
JUL 24,83	JUL 23,83	0.87	1.00	0.17	1.775		0.11	0.28
JUL 25,83	JUL 24,83	5.93	2.46	0.31	0.624		0.06	0.37
JUL 26,83	JUL 25,83	0.48	1.82	0.11	0.484		0.02	0.13
JUL 27,83	JUL 26,83	0.75	0.15	0.03	0.102		0.03	0.06
JUL 28,83	JUL 27,83	7.51	11.56	0.76	1.500		0.21	0.98
JUL 29,83	JUL 28,83	11.29	28.06	1.09	6.417		0.06	1.15
JUL 30,83	JUL 29,83	3.86	12.95	0.66	0.733		0.12	0.79
JUL 31,83	JUL 30,83	1.36	10.44	0.94	0.254		0.05	0.99
AUG 1,83	JUL 31,83	3.41	7.72	0.57	1.855		0.02	0.59
AUG 2,83	AUG 1,83	3.46	1.59	0.24	0.353		0.05	0.29
AUG 3,83	AUG 2,83	0.00	0.98	0.04	0.294		0.10	0.14
AUG 4,83	AUG 3,83	4.72	13.06	0.78	2.822		0.07	0.84
AUG 5,83	AUG 4,83	3.85	13.86	0.94	1.377		0.05	0.99
AUG 6,83	AUG 5,83	1.49	10.78	1.17	******		0.06	1.23
AUG 7,83	AUG 6,83	0.07	2.59	0.28	0.804		0.05	0.32
AUG 8,83	AUG 7,83	1.67	4.75	0.38	1.012		0.47	0.85
AUG 9,83	AUG 8,83	5.98	3.49	0.61	0.777		0.27	0.88
AUG 10,83	AUG 9,83	0.00	0.80	0.02	1.777		0.09	0.11
AUG 11,83	AUG 10,83	3.21	3.22	0.32	0.467		0.21	0.54
AUG 12,83	AUG 11,83	2.02	1.98	0.19	0.279		0.03	0.21
AUG 13,83	AUG 12,83	1.04	1.17	0.14	0.199		0.17	0.31
AUG 14,83	AUG 13,83	2.23	6.00	0.53	1.507		0.40	0.93
AUG 15,83	AUG 14,83	2.37	5.07	0.38	1.020		0.29	0.68
AUG 16,83	AUG 15,83	4.78	10.93	0.69	2.770		0.63	1.32
AUG 17,83	AUG 16,83	11.46	26.00	1.72	4.255	<N	0.01	1.72
AUG 18,83	AUG 17,83	10.78	22.12	1.14	5.008		0.35	1.49
AUG 19,83	AUG 18,83	2.69	22.66	0.37	3.854		0.29	0.66
AUG 20,83	AUG 19,83	12.55	24.92	1.11	3.598		0.54	1.65
AUG 21,83	AUG 20,83	0.35	0.80	0.14	0.015		0.05	0.19
AUG 22,83	AUG 21,83	6.55	6.91	0.48	0.745		0.57	1.05
AUG 23,83	AUG 22,83	1.09	5.45	0.27	1.160		0.07	0.34
AUG 24,83	AUG 23,83	8.76	1.62	0.44	0.135		0.05	0.49
AUG 25,83	AUG 24,83	12.27	3.63	0.62	0.369		0.21	0.83
AUG 26,83	AUG 25,83	9.01	20.32	1.60	5.111	<T	0.01	1.60
AUG 27,83	AUG 26,83	7.69	21.74	1.68	3.324		0.43	2.11
AUG 28,83	AUG 27,83	5.06	22.70	1.29	6.050		0.17	1.46
AUG 29,83	AUG 28,83	0.38	4.47	0.43	0.686		0.11	0.54
AUG 30,83	AUG 29,83	2.85	10.42	0.31	2.336		0.70	1.01
AUG 31,83	AUG 30,83	2.80	4.31	0.53	0.742	<T	0.01	0.54
SEP 1,83	AUG 31,83	1.48	3.45	0.20	0.482		0.02	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 13

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
SEP 2,83	SEP 1,83	800	800	1	25290.0	15975	2	1		
SEP 3,83	SEP 2,83	800	800	1	25080.0	15976	2	1		
SEP 4,83	SEP 3,83	800	800	1	25430.0	15977	2	1		
SEP 5,83	SEP 4,83	800	800	1	24990.0	15978	2	1		
SEP 6,83	SEP 5,83	800	800	1	24710.0	15979	2	1		
SEP 7,83	SEP 6,83	800	800	1	24890.0	15981	2	1		
SEP 8,83	SEP 7,83	800	800	1	25940.0	15982	2	1		
SEP 9,83	SEP 8,83	800	800	1	25380.0	15983	2	1		
SEP 10,83	SEP 9,83	800	800	1	25860.0	15984	2	1		
SEP 11,83	SEP 10,83	800	800	1	25840.0	15985	2	1		
SEP 12,83	SEP 11,83	800	800	1	25770.0	15986	2	1		
SEP 13,83	SEP 12,83	800	800	1	********	15987	2	1	A	
SEP 14,83	SEP 13,83	800	800	1	28030.0	15989	2	1		
SEP 15,83	SEP 14,83	800	800	1	26290.0	15990	2	1		
SEP 16,83	SEP 15,83	800	800	1	26470.0	15991	2	1		
SEP 17,83	SEP 16,83	800	800	1	24050.0	15992	2	1		
SEP 18,83	SEP 17,83	800	800	1	25840.0	15993	2	1		
SEP 19,83	SEP 18,83	800	800	1	24660.0	15994	2	1		
SEP 20,83	SEP 19,83	800	800	1	24840.0	15995	2	1		
SEP 21,83	SEP 20,83	800	800	1	25370.0	16001	2	1		
SEP 22,83	SEP 21,83	800	800	1	27280.0	16002	2	1		
SEP 23,83	SEP 22,83	800	800	1	27240.0	16003	2	1		
SEP 24,83	SEP 23,83	800	800	1	24060.0	16004	2	1		
SEP 25,83	SEP 24,83	800	800	1	26190.0	16005	2	1		
SEP 26,83	SEP 25,83	800	800	1	26690.0	16006	2	1		
SEP 27,83	SEP 26,83	800	800	1	********	16007	2	1	A	
SEP 28,83	SEP 27,83	800	800	1	24840.0	16009	2	1		
SEP 29,83	SEP 28,83	800	800	1	24210.0	16010	2	1		
SEP 30,83	SEP 29,83	800	800	1	24820.0	16011	2	1		
OCT 1,83	SEP 30,83	800	800	1	26300.0	16012	2	1		
OCT 2,83	OCT 1,83	800	800	1	23540.0	16013	2	1		
OCT 3,83	OCT 2,83	800	800	1	25280.0	16014	2	1		
OCT 4,83	OCT 3,83	800	800	1	26380.0	16015	2	1		
OCT 5,83	OCT 4,83	800	800	1	24780.0	16017	2	1		
OCT 6,83	OCT 5,83	800	800	1	24760.0	16018	2	1		
OCT 7,83	OCT 6,83	800	800	1	26100.0	16019	2	1		
OCT 8,83	OCT 7,83	800	800	1	26610.0	16020	2	1		
OCT 9,83	OCT 8,83	800	800	1	26280.0	16021	2	1		
OCT 10,83	OCT 9,83	800	800	1	26350.0	16022	2	1		
OCT 11,83	OCT 10,83	800	800	1	25710.0	16023	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR 802 PAGE : 14

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
SEP 2,83	SEP 1,83	2.12		1.02	0.12	0.062		0.06	0.18
SEP 3,83	SEP 2,83	1.81		0.23	0.47	0.009		0.02	0.49
SEP 4,83	SEP 3,83	8.08		24.79	1.62	4.004		0.04	1.66
SEP 5,83	SEP 4,83	8.00		30.99	1.09	1.294		1.60	2.69
SEP 6,83	SEP 5,83	9.87		32.11	0.78	0.125		0.07	0.85
SEP 7,83	SEP 6,83	5.58		0.18	0.66	0.007	<M	0.01	0.66
SEP 8,83	SEP 7,83	1.23		3.42	0.20	0.080		0.28	0.48
SEP 9,83	SEP 8,83	7.98		8.19	0.86	0.996		0.12	0.98
SEP 10,83	SEP 9,83	14.73		14.19	1.27	2.938		0.47	1.74
SEP 11,83	SEP 10,83	5.62		8.75	0.69	0.920		0.66	1.35
SEP 12,83	SEP 11,83	0.66		1.70	0.14	0.250		0.20	0.35
SEP 13,83	SEP 12,83	******		******	******	******		******	******
SEP 14,83	SEP 13,83	0.36		2.81	0.03	0.227		0.22	0.25
SEP 15,83	SEP 14,83	0.35		2.38	0.04	0.099		0.27	0.31
SEP 16,83	SEP 15,83	9.54		2.98	0.09	0.414		0.45	0.53
SEP 17,83	SEP 16,83	5.54		7.28	0.51	0.117		0.18	0.68
SEP 18,83	SEP 17,83	3.87		6.27	0.29	0.025		0.16	0.46
SEP 19,83	SEP 18,83	6.04		15.09	0.48	1.101		0.39	0.87
SEP 20,83	SEP 19,83	7.33		19.08	0.88	0.049		0.49	1.37
SEP 21,83	SEP 20,83	1.31		0.64	0.51	0.106		1.20	1.71
SEP 22,83	SEP 21,83	14.05	<M	0.05	0.14	0.087	<M	0.01	0.14
SEP 23,83	SEP 22,83	9.55		0.96	0.18	0.537		0.06	0.25
SEP 24,83	SEP 23,83	3.32	<M	0.05	0.10	0.140	<M	0.01	0.10
SEP 25,83	SEP 24,83	5.17		2.53	0.41	0.559		0.48	0.89
SEP 26,83	SEP 25,83	12.63		1.45	0.75	0.338		0.07	0.82
SEP 27,83	SEP 26,83	******		******	******	******		******	******
SEP 28,83	SEP 27,83	5.52		19.36	1.74	4.090		0.07	1.81
SEP 29,83	SEP 28,83	6.72		17.80	1.86	3.915	<M	0.01	1.86
SEP 30,83	SEP 29,83	1.70		7.98	1.10	1.369		0.37	1.47
OCT 1,83	SEP 30,83	6.90		3.76	0.76	0.402		0.71	1.48
OCT 2,83	OCT 1,83	9.35		4.59	1.14	1.044		0.23	1.38
OCT 3,83	OCT 2,83	13.98		14.60	1.25	3.947		0.44	1.68
OCT 4,83	OCT 3,83	11.58		15.62	0.67	4.351		0.40	1.06
OCT 5,83	OCT 4,83	6.15		9.08	0.39	0.980		0.52	0.91
OCT 6,83	OCT 5,83	3.09		2.32	0.17	0.668		0.35	0.52
OCT 7,83	OCT 6,83	1.49		1.77	0.11	0.412		0.23	0.34
OCT 8,83	OCT 7,83	13.50		3.24	0.56	0.847		0.23	0.80
OCT 9,83	OCT 8,83	3.61		2.33	0.11	0.668		0.10	0.21
OCT 10,83	OCT 9,83	2.84		0.90	0.09	0.337		0.30	0.39
OCT 11,83	OCT 10,83	9.88		6.85	0.90	1.137		0.14	1.04

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 15

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
OCT 12,83	OCT 11,83	800	800	1	25380.0	16025	2	1		
OCT 13,83	OCT 12,83	800	800	1	24580.0	16026	2	1		
OCT 14,83	OCT 13,83	800	800	1	25550.0	16027	2	1		
OCT 16,83	OCT 14,83	800	800	1	53830.0	16028	2	1	A	Z
OCT 17,83	OCT 16,83	800	800	1	25850.0	16029	2	1		
OCT 18,83	OCT 17,83	800	800	1	24950.0	16030	2	1		
OCT 19,83	OCT 18,83	800	800	1	26730.0	16033	2	1		
OCT 20,83	OCT 19,83	800	800	1	28050.0	16034	2	1		
OCT 21,83	OCT 20,83	800	800	1	28040.0	16035	2	1		
OCT 22,83	OCT 21,83	800	800	1	27640.0	16036	2	1		
OCT 23,83	OCT 22,83	800	800	1	24650.0	16037	2	1		
OCT 24,83	OCT 23,83	800	800	1	24120.0	16038	2	1		
OCT 25,83	OCT 24,83	800	800	1	25570.0	16039	2	1		
OCT 26,83	OCT 25,83	800	800	1	26300.0	16041	2	1		
OCT 27,83	OCT 26,83	800	800	1	27670.0	16042	2	1		
OCT 28,83	OCT 27,83	800	800	1	27440.0	16043	2	1		
OCT 29,83	OCT 28,83	800	800	1	27300.0	16044	2	1		
OCT 30,83	OCT 29,83	800	800	1	28110.0	16045	2	1		
OCT 31,83	OCT 30,83	800	800	1	27170.0	16046	2	1		
NOV 1,83	OCT 31,83	800	800	1	27840.0	16047	2	1		
NOV 2,83	NOV 1,83	800	800	1	24790.0	16049	2	1		
NOV 3,83	NOV 2,83	800	800	1	22850.0	16050	2	1		
NOV 4,83	NOV 3,83	800	800	1	27730.0	16051	2	1		
NOV 5,83	NOV 4,83	800	800	1	26830.0	16052	2	1		
NOV 6,83	NOV 5,83	800	800	1	25920.0	16053	2	1		
NOV 7,83	NOV 6,83	800	800	1	25580.0	16054	2	1		
NOV 8,83	NOV 7,83	800	800	1	********	16055	2	1	F	
NOV 9,83	NOV 8,83	1435	800	1	19340.0	16057	2	1		
NOV 10,83	NOV 9,83	800	800	1	27270.0	16058	2	1		
NOV 11,83	NOV 10,83	800	800	1	25350.0	16059	2	1		
NOV 12,83	NOV 11,83	800	800	1	26630.0	16060	2	1		
NOV 13,83	NOV 12,83	800	800	1	28210.0	16061	2	1		
NOV 14,83	NOV 13,83	800	800	1	27980.0	16062	2	1		
NOV 15,83	NOV 14,85	800	800	1	28020.0	16063	2	1		
NOV 16,83	NOV 15,83	800	800	1	25920.0	16065	2	1		
NOV 17,83	NOV 16,83	1445	800	1	17820.0	16066	2	1		
NOV 18,83	NOV 17,83	800	800	1	24510.0	16067	2	1		
NOV 19,83	NOV 18,83	800	800	1	24270.0	16068	2	1		
NOV 20,83	NOV 19,83	800	800	1	24470.0	16069	2	1		
NOV 21,83	NOV 20,83	800	800	1	26350.0	16070	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 16

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
OCT 12,83	OCT 11,83		8.27		6.93		0.56		1.461		0.05		0.61
OCT 13,83	OCT 12,83		14.87		2.66		0.18		0.776		0.13		0.31
OCT 14,83	OCT 13,83		8.49		0.99		0.14		0.406		0.09		0.23
OCT 16,83	OCT 14,83		3.80		2.09		0.17		0.633		0.30		0.46
OCT 17,83	OCT 16,83		6.48		3.25		0.36		1.697		0.67		1.03
OCT 18,83	OCT 17,83		1.19		1.22		0.09		0.484		0.23		0.32
OCT 19,83	OCT 18,83		0.25		1.55		0.06		0.566		0.33		0.39
OCT 20,83	OCT 19,83		3.81		1.03		0.06		0.251		0.16		0.22
OCT 21,83	OCT 20,83		2.55		0.58		0.14		0.114		0.27		0.41
OCT 22,83	OCT 21,83		17.63		2.44		0.41		0.824		0.72		1.13
OCT 23,83	OCT 22,83		8.03		2.08		0.18		0.640		0.21		0.39
OCT 24,83	OCT 23,83		4.98		2.49		0.07		1.102		0.49		0.56
OCT 25,83	OCT 24,83		3.45		3.13		0.13		2.240		0.98		1.11
OCT 26,83	OCT 25,83		4.94		2.22		0.21		0.895		0.36		0.56
OCT 27,83	OCT 26,83		0.00		0.66		0.06		0.224		0.07		0.13
OCT 28,83	OCT 27,83		11.08		1.80		0.27		0.594		0.37		0.64
OCT 29,83	OCT 28,83		4.29		1.22		0.12		0.359		0.20		0.32
OCT 30,83	OCT 29,83		0.00		0.51		0.02		0.163		0.12		0.14
OCT 31,83	OCT 30,83		8.36		3.57		0.27		1.089		0.64		0.91
NOV 1,83	OCT 31,83		16.09		3.61		0.28		1.393		1.34		1.62
NOV 2,83	NOV 1,83	P	8.29	P	12.56	P	0.63	P	1.503	P	2.09	P	2.73
NOV 3,83	NOV 2,83	P	4.16	P	8.05	P	0.48	P	7.659	P	1.32	P	1.80
NOV 4,83	NOV 3,83	P	4.70	P	0.50	P	0.05	P	0.171	<P	0.01		******
NOV 5,83	NOV 4,83	P	0.31	P	0.98	P	0.06	P	0.373	P	0.04	P	0.09
NOV 6,83	NOV 5,83	P	0.23	P	0.29	P	0.04	P	0.249	<P	0.01		******
NOV 7,83	NOV 6,83	P	7.79	P	3.99	P	0.20	P	1.712	P	1.51	P	1.70
NOV 8,83	NOV 7,83		******		******		******		******		******		******
NOV 9,83	NOV 8,83	P	25.92	P	9.57	P	0.71	P	3.232	P	1.68	P	2.39
NOV 10,83	NOV 9,83		60.33		8.98		0.71		2.888		1.46		2.17
NOV 11,83	NOV 10,83		10.50		6.81		0.26		1.923		0.83		1.09
NOV 12,83	NOV 11,83		1.69		0.56		0.02		0.154	<T	0.01		0.02
NOV 13,83	NOV 12,83		0.66		1.99		0.09		0.780		0.31		0.40
NOV 14,83	NOV 13,83		5.02		2.14		0.25		0.670		0.52		0.76
NOV 15,83	NOV 14,83		20.69		6.91		1.38		1.320		0.50		1.88
NOV 16,83	NOV 15,83		5.38		2.75		0.19		0.752		0.68		0.86
NOV 17,83	NOV 16,83		1.68		2.31		0.00		0.251	<W	0.01		0.00
NOV 18,83	NOV 17,83		2.18		2.91		0.08		1.172		0.51		0.59
NOV 19,83	NOV 18,83		9.76		5.72		0.09		2.729		1.33		1.41
NOV 20,83	NOV 19,83		12.45		6.18		0.13		1.634		1.62		1.75
NOV 21,83	NOV 20,83		10.86		2.75		0.18		0.654		0.21		0.39

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITA.ION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02 PAGE : 17

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,83	NOV 21,83	800	800	1	26610.0	16071	2	1		
NOV 23,83	NOV 22,83	800	800	1	27350.0	16073	2	1	D	
NOV 24,83	NOV 23,83	800	800	1	22300.0	16074	2	1		
NOV 25,83	NOV 24,83	800	800	1	27710.0	16075	2	1		
NOV 26,83	NOV 25,83	800	800	1	27610.0	16076	2	1		
NOV 27,83	NOV 26,83	800	800	1	27460.0	16077	2	1		
NOV 28,83	NOV 27,83	800	800	1	27650.0	16078	2	1		
NOV 29,83	NOV 28,83	800	800	1	25860.0	16079	2	1		
NOV 30,83	NOV 29,83	800	800	1	27940.0	16081	2	1		
DEC 1,83	NOV 30,83	800	800	1	27360.0	16082	2	1		
DEC 2,83	DEC 1,83	800	800	1	25580.0	16083	2	1	C	
DEC 3,83	DEC 2,83	800	800	1	27360.0	16084	2	1		
DEC 4,83	DEC 3,83	800	800	1	28200.0	16085	2	1		
DEC 5,83	DEC 4,83	800	800	1	24260.0	16086	2	1		
DEC 6,83	DEC 5,83	800	800	1	23540.0	16087	2	1		
DEC 7,83	DEC 6,83	800	800	1	23970.0	16089	2	1		
DEC 8,83	DEC 7,83	800	800	1	23930.0	16090	2	1	B	
DEC 9,83	DEC 8,83	800	800	1	25790.0	16091	2	1		
DEC 10,83	DEC 9,83	800	800	1	23500.0	16092	2	1		
DEC 11,83	DEC 10,83	800	800	1	25720.0	16093	2	1		
DEC 12,83	DEC 11,83	800	800	1	24060.0	16094	2	1		
DEC 13,83	DEC 12,83	800	800	1	24140.0	16095	2	1		
DEC 14,83	DEC 13,83	800	800	1	21810.0	16097	2	1		
DEC 15,83	DEC 14,83	800	800	1	23050.0	16098	2	1		
DEC 16,83	DEC 15,83	800	800	1	26160.0	16099	2	1		
DEC 17,83	DEC 16,83	800	800	1	26420.0	16100	2	1		
DEC 18,83	DEC 17,83	800	800	1	26660.0	16101	2	1		
DEC 19,83	DEC 18,83	800	800	1	26890.0	16102	2	1		
DEC 20,83	DEC 19,83	800	800	1	27350.0	16103	2	1		
DEC 21,83	DEC 20,83	800	800	1	27750.0	16104	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
NOV 22,83	NOV 21,83	9.00	2.44	0.19	1.004		0.80	0.99
NOV 23,83	NOV 22,83	11.86	4.11	0.23	1.288		0.84	1.07
NOV 24,83	NOV 23,83	10.56	3.14	0.36	0.816		0.35	0.71
NOV 25,83	NOV 24,83	5.52	3.43	0.38	0.847		0.08	0.46
NOV 26,83	NOV 25,83	15.20	2.99	0.19	1.086		0.97	1.15
NOV 27,83	NOV 26,83	20.63	3.05	0.17	1.429		1.04	1.21
NOV 28,83	NOV 27,83	6.68	1.67	0.09	0.605		0.40	0.49
NOV 29,83	NOV 28,83	8.98	2.37	0.27	0.705		0.12	0.38
NOV 30,83	NOV 29,83	6.98	3.09	0.30	0.743		0.04	0.35
DEC 1,83	NOV 30,83	24.35	2.92	0.13	0.787		0.56	0.69
DEC 2,83	DEC 1,83	14.64	5.96	0.69	1.067		0.52	1.21
DEC 3,83	DEC 2,83	23.53	4.11	0.87	1.070		0.16	1.03
DEC 4,83	DEC 3,83	10.53	2.88	0.53	0.808		0.27	0.80
DEC 5,83	DEC 4,83	5.61	5.56	0.56	2.176		0.76	1.32
DEC 6,83	DEC 5,83	16.55	5.63	0.48	1.637		0.14	0.62
DEC 7,83	DEC 6,83	11.55	2.03	0.11	0.146	<T	0.01	0.12
DEC 8,83	DEC 7,83	6.13	2.87	0.14	1.106		0.42	0.56
DEC 9,83	DEC 8,83	12.48	5.18	1.07	1.782		0.53	1.61
DEC 10,83	DEC 9,83	9.93	3.72	0.39	2.041		1.28	1.67
DEC 11,83	DEC 10,83	4.24	6.66	0.45	3.449		1.95	2.41
DEC 12,83	DEC 11,83	14.48	6.75	0.66	0.331		0.02	0.68
DEC 13,83	DEC 12,83	5.76	3.06	0.31	0.868		0.10	0.41
DEC 14,83	DEC 13,83	9.75	4.59	0.81	0.996		0.07	0.88
DEC 15,83	DEC 14,83	21.67	4.93	0.58	1.118	<N	0.01	0.58
DEC 16,83	DEC 15,83	15.16	4.44	0.74	0.832		0.07	0.81
DEC 17,83	DEC 16,83	21.65	4.59	0.26	0.625		0.60	0.86
DEC 18,83	DEC 17,83	22.41	5.06	0.73	0.451		0.48	1.21
DEC 19,83	DEC 18,83	15.85	3.77	0.55	0.633		0.05	0.59
DEC 20,83	DEC 19,83	10.05	3.43	0.00	0.448		0.45	0.45
DEC 21,83	DEC 20,83	20.25	4.64	0.00	0.406		0.59	0.59

PART IV

CENTRAL REGION DAILY AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JAN 19,83	JAN 18,83	1000	900	1	28640.0	25799	2	1	A	
JAN 20,83	JAN 19,83	900	800	1	29100.0	25800	2	1	A	
JAN 21,83	JAN 20,83	800	830	1	30440.0	25801	2	1		
JAN 23,83	JAN 21,83	830	800	1	59760.0	25802	2	1	A	Z
JAN 24,83	JAN 23,83	800	830	1	28020.0	25803	2	1	A	
JAN 25,83	JAN 24,83	830	800	1	27240.0	25804	2	1	A	
JAN 26,83	JAN 25,83	800	900	1	30520.0	25806	2	1	A	
JAN 27,83	JAN 26,83	900	800	1	28200.0	25807	2	1		
JAN 28,83	JAN 27,83	800	800	1	29130.0	25808	2	1		
JAN 29,83	JAN 28,83	800	800	1	29960.0	25809	2	1		
JAN 30,83	JAN 29,83	800	800	1	29460.0	25810	2	1		
JAN 31,83	JAN 30,83	800	800	1	27450.0	25811	2	1		
FEB 1,83	JAN 31,83	800	800	1	29340.0	25812	2	1		
FEB 3,83	FEB 1,83	800	800	1	54700.0	25814	2	1	A	Z
FEB 4,83	FEB 3,83	800	800	1	27740.0	25815	2	1		
FEB 6,83	FEB 4,83	800	800	1	59600.0	25816	2	1	A	Z
FEB 7,83	FEB 6,83	800	800	1	30690.0	25817	2	1		
FEB 8,83	FEB 7,83	800	800	1	30980.0	25818	2	1		
FEB 9,83	FEB 8,83	800	1130	1	33700.0	25820	2	1	A	
FEB 10,83	FEB 9,83	1130	800	1	25440.0	25821	2	1	A	
FEB 11,83	FEB 10,83	800	800	1	29770.0	25822	2	1		
FEB 12,83	FEB 11,83	800	800	1	31040.0	25823	2	1		
FEB 13,83	FEB 12,83	800	800	1	31650.0	25824	2	1		
FEB 14,83	FEB 13,83	800	800	1	30690.0	25825	2	1		
FEB 15,83	FEB 14,83	800	830	1	29130.0	25826	2	1	A	
FEB 16,83	FEB 15,83	830	800	1	27930.0	25828	2	1	A	
FEB 17,83	FEB 16,83	800	800	1	28220.0	25829	2	1		
FEB 18,83	FEB 17,83	800	900	1	28520.0	25830	2	1	A	
FEB 19,83	FEB 18,83	900	800	1	28480.0	25831	2	1	A	
FEB 21,83	FEB 19,83	800	900	1	61820.0	25832	2	1	A	Z
FEB 22,83	FEB 21,83	900	800	1	28330.0	25833	2	1	A	
FEB 23,83	FEB 22,83	800	830	1	28230.0	25835	2	1	A	
FEB 24,83	FEB 23,83	830	800	1	25910.0	25836	2	1	A	
FEB 25,83	FEB 24,83	800	800	1	27840.0	25837	2	1		
FEB 26,83	FEB 25,83	800	800	1	30910.0	25838	2	1		
FEB 28,83	FEB 26,83	800	800	1	54960.0	25839	2	1		Z
MAR 1,83	FEB 28,83	800	800	1	28830.0	25840	2	1		
MAR 2,83	MAR 1,83	800	820	1	27600.0	25842	2	1	A	
MAR 3,83	MAR 2,83	820	800	1	26920.0	25843	2	1	A	
MAR 4,83	MAR 3,83	800	800	1	27830.0	25844	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 906 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
JAN 19,83	JAN 18,83	1.16		0.29		0.03		0.018		0.03		0.06
JAN 20,83	JAN 19,83	0.34		1.27		0.09		0.287		0.03		0.12
JAN 21,83	JAN 20,83	2.19		1.01		0.08		0.280	<W	0.00		0.08
JAN 23,83	JAN 21,83	3.14		1.77		0.32		0.404	<W	0.00		0.32
JAN 24,83	JAN 23,83	4.44		5.87		0.84		0.204	<W	0.01		0.84
JAN 25,83	JAN 24,83	3.65		3.61		0.18		0.173	<W	0.01		0.18
JAN 26,83	JAN 25,83	0.98		0.10		0.11	<T	0.001	<T	0.00		0.11
JAN 27,83	JAN 26,83	0.87		0.89		0.09		0.218	<T	0.01		0.10
JAN 28,83	JAN 27,83	0.49		1.29		0.11		0.123	<W	0.01		0.11
JAN 29,83	JAN 28,83	13.66		6.61		0.90		1.326	<W	0.01		0.90
JAN 30,83	JAN 29,83	3.96		8.28		1.69	G	4.343	<W	0.01		1.69
JAN 31,83	JAN 30,83	26.46		7.83		1.05		2.320		0.02		1.07
FEB 1,83	JAN 31,83	3.06		2.00		0.23		0.252		0.02		0.25
FEB 3,83	FEB 1,83	3.12		1.48		0.23		0.250		0.01		0.24
FEB 4,83	FEB 3,83	12.30		1.85		0.12		0.197	<W	0.01		0.12
FEB 6,83	FEB 4,83	1.28		0.75		0.06		0.121		0.03		0.09
FEB 7,83	FEB 6,83	3.42		1.10		0.21		0.294		0.06		0.27
FEB 8,83	FEB 7,83	5.97		2.42		0.23		0.531		0.02		0.25
FEB 9,83	FEB 8,83	10.37		0.15		0.11		0.011		0.01		0.13
FEB 10,83	FEB 9,83	1.14		0.83		0.04		0.182		0.03		0.07
FEB 11,83	FEB 10,83	1.31		1.26		0.04		0.174		0.03		0.07
FEB 12,83	FEB 11,83	1.37		1.09		0.06		0.236		0.03		0.10
FEB 13,83	FEB 12,83	1.34		1.19		0.10		0.312		0.06		0.16
FEB 14,83	FEB 13,83	37.56		7.63		1.50		1.511		0.12		1.62
FEB 15,83	FEB 14,83	24.29	G	13.32		2.41	G	3.102		0.03		2.44
FEB 16,83	FEB 15,83	4.93		4.58		0.27		0.116	<W	0.01		0.27
FEB 17,83	FEB 16,83	11.50	G	9.78		0.62		2.164	<W	0.01		0.62
FEB 18,83	FEB 17,83	9.70		7.71		0.67		1.204	<W	0.01		0.67
FEB 19,83	FEB 18,83	1.81		1.49		0.26		0.387		0.04		0.30
FEB 21,83	FEB 19,83	14.55		5.90		1.15	>	1.615		0.16		1.30
FEB 22,83	FEB 21,83	3.70		1.23		0.16		0.121	<W	0.01		0.16
FEB 23,83	FEB 22,83	4.67		1.91		0.15		0.077	<W	0.01		0.15
FEB 24,83	FEB 23,83	1.05		1.78		0.09		0.314		0.02		0.11
FEB 25,83	FEB 24,83	4.94		1.35		0.04		0.204		0.02		0.06
FEB 26,83	FEB 25,83	8.76		1.86		0.05		0.270		0.02		0.06
FEB 28,83	FEB 26,83	5.71		2.40		0.34		0.585		0.36		0.71
MAR 1,83	FEB 28,83	10.51		5.72		0.31		0.230	G	0.73		1.04
MAR 2,83	MAR 1,83	5.38		4.06		0.36		1.095		0.03		0.39
MAR 3,83	MAR 2,83	2.95		1.26		0.17		0.044	<W	0.01		0.17
MAR 4,83	MAR 3,83	2.85		5.10		0.10		0.008	<W	0.01		0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
MAR 7,83	MAR 4,83	800	830	1	85090.0	25845	2	1	A	Z
MAR 8,83	MAR 7,83	830	800	1	25970.0	25846	2	1	A	
MAR 9,83	MAR 8,83	800	800	1	25200.0	25848	2	1		
MAR 10,83	MAR 9,83	800	800	1	25130.0	25849	2	1		
MAR 11,83	MAR 10,83	800	800	1	27640.0	25850	2	1		
MAR 12,83	MAR 11,83	800	800	1	28840.0	25851	2	1		
MAR 13,83	MAR 12,83	800	800	1	29710.0	25852	2	1		
MAR 14,83	MAR 13,83	800	800	1	29050.0	25853	2	1		
MAR 15,83	MAR 14,83	800	800	1	29630.0	25854	2	1		
MAR 16,83	MAR 15,83	800	800	1	27300.0	25856	2	1		
MAR 17,83	MAR 16,83	800	800	1	28530.0	25857	2	1		
MAR 18,83	MAR 17,83	800	800	1	29310.0	25858	2	1		
MAR 19,83	MAR 18,83	800	800	1	28830.0	25859	2	1		
MAR 21,83	MAR 19,83	800	830	1	59290.0	25860	2	1	A	Z
MAR 22,83	MAR 21,83	830	830	1	30390.0	25861	2	1	A	
MAR 23,83	MAR 22,83	830	830	1	29050.0	25863	2	1	A	
MAR 24,83	MAR 23,83	830	800	1	28780.0	25864	2	1	A	
MAR 25,83	MAR 24,83	800	800	1	29160.0	25865	2	1		
MAR 26,83	MAR 25,83	800	800	1	29850.0	25866	2	1		
MAR 28,83	MAR 26,83	800	800	1	58210.0	25867	2	1	A	Z
MAR 29,83	MAR 28,83	800	800	1	28920.0	25868	2	1		
MAR 30,83	MAR 29,83	800	800	1	29290.0	25870	2	1		
MAR 31,83	MAR 30,83	800	800	1	29620.0	25871	2	1		
APR 2,83	MAR 31,83	800	800	1	57920.0	25872	2	1	A	Z
APR 4,83	APR 2,83	800	800	1	56400.0	25873	2	1	A	Z
APR 5,83	APR 4,83	800	800	1	27640.0	25874	2	1		
APR 6,83	APR 5,83	800	800	1	28480.0	25876	2	1		
APR 7,83	APR 6,83	800	830	1	29520.0	25877	2	1	A	
APR 8,83	APR 7,83	830	830	1	26520.0	25878	2	1	A	
APR 9,83	APR 8,83	830	800	1	28950.0	25879	2	1	A	
APR 11,83	APR 9,83	800	800	1	56650.0	25880	2	1	A	Z
APR 12,83	APR 11,83	800	830	1	28800.0	25881	2	1	A	
APR 13,83	APR 12,83	830	830	1	30000.0	25882	2	1	A	
APR 14,83	APR 13,83	830	800	1	27590.0	25884	2	1	A	
APR 15,83	APR 14,83	800	800	1	27570.0	25885	2	1		
APR 16,83	APR 15,83	800	800	1	28750.0	25886	2	1		
APR 18,83	APR 16,83	800	800	1	58720.0	25887	2	1	A	Z
APR 19,83	APR 18,83	800	800	1	30750.0	25888	2	1		
APR 20,83	APR 19,83	800	800	1	30420.0	25889	2	1		
APR 21,83	APR 20,83	800	800	1	30070.0	25890	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 906 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
MAR 7,83	MAR 4,83	4.14		4.56		0.43		0.968		0.06		0.49
MAR 8,83	MAR 7,83	1.55		4.74		0.74		0.202	<M	0.01		0.74
MAR 9,83	MAR 8,83	0.94		0.20		0.28		0.056	<M	0.01		0.28
MAR 10,83	MAR 9,83	0.47		0.70		0.21	<T	0.004	<M	0.01		0.21
MAR 11,83	MAR 10,83	0.31		0.32		0.09		0.000	<M	0.01		0.09
MAR 12,83	MAR 11,83	12.43		1.69		0.04		0.109	<M	0.01		0.04
MAR 13,83	MAR 12,83	4.66		0.29		0.04		0.000	<M	0.01		0.04
MAR 14,83	MAR 13,83	0.64		0.30		0.04		0.031	<M	0.01		0.04
MAR 15,83	MAR 14,83	8.15		4.25		0.73		1.855	G	0.74		1.47
MAR 16,83	MAR 15,83	7.14		2.70		0.10		0.000	<T	0.01		0.11
MAR 17,83	MAR 16,83	1.79		0.96		0.10		0.283		0.06		0.16
MAR 18,83	MAR 17,83	10.18		6.48		0.73		1.593		0.03		0.76
MAR 19,83	MAR 18,83	1.09		3.89		0.36		0.624		0.06		0.42
MAR 21,83	MAR 19,83	0.95		1.97		0.04		0.194	<M	0.00		0.04
MAR 22,83	MAR 21,83	0.47		1.81		0.06		0.174		0.02		0.08
MAR 23,83	MAR 22,83	2.52		2.45		0.04		0.233	<M	0.01		0.04
MAR 24,83	MAR 23,83	2.30		2.17		0.00		0.202		0.02		0.02
MAR 25,83	MAR 24,83	1.01		1.54		0.01		0.200		0.03		0.04
MAR 26,83	MAR 25,83	2.79		2.13		0.04		0.110		0.03		0.06
MAR 28,83	MAR 26,83	5.56		2.27		0.23		0.412		0.03		0.26
MAR 29,83	MAR 28,83	1.21		2.59		0.09		0.120		0.02		0.11
MAR 30,83	MAR 29,83	0.07		1.15		0.05		0.299		0.02		0.07
MAR 31,83	MAR 30,83	2.03		1.65		0.07		0.389	<M	0.01		0.07
APR 2,83	MAR 31,83	0.84		1.86		0.06		0.394	<M	0.00		0.06
APR 4,83	APR 2,83	0.95		1.81		0.13		0.422	<M	0.00		0.13
APR 5,83	APR 4,83	0.52		0.81		0.09		1.412	<M	0.01		0.09
APR 6,83	APR 5,83	3.86	<M	0.04		0.09		0.108	<M	0.01		0.09
APR 7,83	APR 6,83	6.56	<M	0.04		0.07		0.179	<M	0.01		0.07
APR 8,83	APR 7,83	6.17		5.35		0.31		0.578	<M	0.01		0.31
APR 9,83	APR 8,83	9.25		1.25		0.07		0.028	<M	0.01		0.07
APR 11,83	APR 9,83	0.79		1.46		0.12		0.283	<M	0.00		0.12
APR 12,83	APR 11,83	2.28		0.87		0.07		0.093	<M	0.01		0.07
APR 13,83	APR 12,83	1.14		0.96		0.05		0.026	<M	0.01		0.05
APR 14,83	APR 13,83	4.72		2.08		0.25		0.606		0.13		0.38
APR 15,83	APR 14,83	5.62		4.50		0.41		0.759	<M	0.01		0.41
APR 16,83	APR 15,83	2.77		3.48		0.28		0.143	<M	0.01		0.28
APR 18,83	APR 16,83	5.14		3.71		0.10		0.057		******		******
APR 19,83	APR 18,83	2.48		1.46		0.05		0.030		0.02		0.07
APR 20,83	APR 19,83	2.81		0.49		0.04		0.042		0.02		0.06
APR 21,83	APR 20,83	4.21		3.03		0.06		0.049		0.02		0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
APR 22,83	APR 21,83	800	800	1	30290.0	25891	2	1		
APR 23,83	APR 22,83	920	800	1	27020.0	25893	2	1		
APR 24,83	APR 23,83	800	800	1	28750.0	25894	2	1		
APR 25,83	APR 24,83	800	730	1	28870.0	25895	2	1		
APR 26,83	APR 25,83	830	830	1	30360.0	25896	2	1		
APR 27,83	APR 26,83	830	800	1	28590.0	25897	2	1		
APR 28,83	APR 27,83	830	800	1	26260.0	25899	2	1		
APR 29,83	APR 28,83	800	800	1	28870.0	25900	2	1		
APR 30,83	APR 29,83	800	800	1	30630.0	25901	2	1		
MAY 2,83	APR 30,83	800	800	1	61160.0	25902	2	1	A	Z
MAY 3,83	MAY 2,83	800	800	1	29650.0	25903	2	1		
MAY 4,83	MAY 3,83	800	800	1	28440.0	25905	2	1		
MAY 5,83	MAY 4,83	800	800	1	27880.0	25906	2	1		
MAY 6,83	MAY 5,83	800	800	1	28790.0	25907	2	1		
MAY 7,83	MAY 6,83	800	800	1	29000.0	25908	2	1		
MAY 9,83	MAY 7,83	800	800	1	58590.0	25909	2	1	A	Z
MAY 10,83	MAY 9,83	800	830	1	30300.0	25910	2	1		
MAY 11,83	MAY 10,83	830	800	1	23440.0	25912	2	1	B	
MAY 12,83	MAY 11,83	800	800	1	27550.0	25913	2	1		
MAY 13,83	MAY 12,83	800	800	1	27930.0	25914	2	1		
MAY 14,83	MAY 13,83	800	800	1	28430.0	25915	2	1		
MAY 15,83	MAY 14,83	800	800	1	28710.0	25916	2	1		
MAY 16,83	MAY 15,83	800	800	1	29040.0	25917	2	1		
MAY 17,83	MAY 16,83	800	800	1	30130.0	25918	2	1		
MAY 18,83	MAY 17,83	800	800	1	27550.0	25920	2	1		
MAY 19,83	MAY 18,83	800	800	1	28270.0	25921	2	1		
MAY 20,83	MAY 19,83	800	800	1	26910.0	25922	2	1		
MAY 21,83	MAY 20,83	800	800	1	29460.0	25923	2	1		
MAY 22,83	MAY 21,83	800	800	1	28050.0	25924	2	1		
MAY 23,83	MAY 22,83	800	800	1	28350.0	25925	2	1		
MAY 24,83	MAY 23,83	800	800	1	28200.0	25926	2	1		
MAY 25,83	MAY 24,83	800	800	1	27740.0	25928	2	1		
MAY 26,83	MAY 25,83	800	800	1	27140.0	25929	2	1		
MAY 27,83	MAY 26,83	800	800	1	27670.0	25930	2	1		
MAY 28,83	MAY 27,83	800	800	1	28660.0	25931	2	1		
MAY 29,83	MAY 28,83	800	800	1	29500.0	25932	2	1		
MAY 30,83	MAY 29,83	800	800	1	28510.0	25933	2	1		
MAY 31,83	MAY 30,83	800	800	1	28360.0	25934	2	1		
JUN 1,83	MAY 31,83	800	800	1	27920.0	25936	2	1		
JUN 2,83	JUN 1,83	800	800	1	26280.0	25937	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 808 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
APR 22,83	APR 21,83	0.32	1.69	0.04	0.057	<W 0.01	0.04
APR 23,83	APR 22,83	0.01	0.83	0.06	0.000	<T 0.01	0.06
APR 24,83	APR 23,83	6.96	3.69	0.08	0.106	<T 0.01	0.09
APR 25,83	APR 24,83	6.81	1.30	0.01	0.064	<W 0.01	0.01
APR 26,83	APR 25,83	1.77	1.44	0.02	0.231	<W 0.01	0.02
APR 27,83	APR 26,83	5.98	1.97	0.05	0.322	0.03	0.08
APR 28,83	APR 27,83	******	6.11	P 0.47	0.070	0.35	******
APR 29,83	APR 28,83	******	2.10	******	0.273	0.04	******
APR 30,83	APR 29,83	******	1.86	******	0.280	0.09	******
MAY 2,83	APR 30,83	******	4.28	******	0.743	******	******
MAY 3,83	MAY 2,83	******	2.72	******	0.408	0.08	******
MAY 4,83	MAY 3,83	******	1.17	******	0.074	<W 0.01	******
MAY 5,83	MAY 4,83	7.72	1.88	0.07	0.246	<W 0.01	0.07
MAY 6,83	MAY 5,83	3.55	1.95	0.03	0.229	<T 0.01	0.04
MAY 7,83	MAY 6,83	7.06	0.13	0.28	0.792	<W 0.01	0.28
MAY 9,83	MAY 7,83	6.62	1.66	0.12	0.255	<T 0.00	0.12
MAY 10,83	MAY 9,83	3.35	1.03	0.03	0.152	0.02	0.05
MAY 11,83	MAY 10,83	0.06	0.90	0.06	0.189	<W 0.01	0.06
MAY 12,83	MAY 11,83	0.37	1.13	0.05	0.112	0.03	0.08
MAY 13,83	MAY 12,83	7.40	2.37	0.20	0.453	0.17	0.37
MAY 14,83	MAY 13,83	1.18	1.72	0.17	0.410	0.18	0.34
MAY 15,83	MAY 14,83	3.59	3.14	0.38	0.709	0.11	0.49
MAY 16,83	MAY 15,83	0.44	0.65	0.07	0.100	<W 0.01	0.07
MAY 17,83	MAY 16,83	0.56	1.33	0.05	0.161	<W 0.01	0.05
MAY 18,83	MAY 17,83	1.05	1.77	0.05	0.244	<T 0.01	0.06
MAY 19,83	MAY 18,83	4.50	2.69	0.36	0.503	G 0.30	0.66
MAY 20,83	MAY 19,83	6.06	5.95	0.04	0.105	0.06	0.10
MAY 21,83	MAY 20,83	******	10.49	******	0.754	<W 0.01	******
MAY 22,83	MAY 21,83	0.39	4.21	0.18	0.267	<W 0.01	0.18
MAY 23,83	MAY 22,83	1.80	9.66	0.38	0.250	<W 0.01	0.38
MAY 24,83	MAY 23,83	5.42	2.57	0.08	0.148	<W 0.01	0.08
MAY 25,83	MAY 24,83	9.09	2.07	0.09	0.233	0.05	0.15
MAY 26,83	MAY 25,83	2.31	2.53	0.25	0.411	0.02	0.27
MAY 27,83	MAY 26,83	5.41	0.72	0.03	0.054	<W 0.01	0.03
MAY 28,83	MAY 27,83	8.77	1.57	0.03	0.135	<W 0.01	0.03
MAY 29,83	MAY 28,83	4.97	5.39	0.36	1.015	0.14	0.49
MAY 30,83	MAY 29,83	5.60	8.03	0.49	0.133	<W 0.01	0.49
MAY 31,83	MAY 30,83	1.53	3.67	0.31	0.535	0.10	0.41
JUN 1,83	MAY 31,83	2.49	3.94	0.30	0.429	<T 0.01	0.31
JUN 2,83	JUN 1,83	4.08	1.01	0.06	0.026	<W 0.01	0.06

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUN 4,83	JUN 2,83	800	800	1	55330.0	25938	2	1	A	Z
JUN 5,83	JUN 4,83	800	800	1	27810.0	25939	2	1		
JUN 6,83	JUN 5,83	800	800	1	28470.0	25940	2	1		
JUN 7,83	JUN 6,83	800	800	1	29080.0	25941	2	1		
JUN 8,83	JUN 7,83	830	800	1	27050.0	25943	2	1	A	
JUN 9,83	JUN 8,83	800	800	1	27570.0	25944	2	1		
JUN 10,83	JUN 9,83	800	800	1	27110.0	25945	2	1		
JUN 11,83	JUN 10,83	800	800	1	27840.0	25946	2	1		
JUN 12,83	JUN 11,83	800	800	1	28510.0	25947	2	1		
JUN 13,83	JUN 12,83	800	800	1	28130.0	25948	2	1		
JUN 14,83	JUN 13,83	800	800	1	28540.0	25949	2	1		
JUN 15,83	JUN 14,83	800	800	1	26620.0	25951	2	1		
JUN 16,83	JUN 15,83	800	800	1	26190.0	25952	2	1		
JUN 17,83	JUN 16,83	800	800	1	26730.0	25953	2	1		
JUN 19,83	JUN 17,83	800	800	1	55820.0	25954	2	1	A	Z
JUN 20,83	JUN 19,83	800	800	1	28830.0	25955	2	1		
JUN 21,83	JUN 20,83	800	800	1	28830.0	25956	2	1		
JUN 22,83	JUN 21,83	800	800	1	27230.0	25958	2	1		
JUN 23,83	JUN 22,83	800	800	1	27090.0	25959	2	1		
JUN 24,83	JUN 23,83	800	800	1	27200.0	25960	2	1		
JUN 25,83	JUN 24,83	800	800	1	28890.0	25961	2	1		
JUN 26,83	JUN 25,83	800	800	1	29410.0	25962	2	1		
JUN 27,83	JUN 26,83	800	800	1	27530.0	25963	2	1		
JUN 28,83	JUN 27,83	800	930	1	31020.0	25964	2	1	A	
JUN 29,83	JUN 28,83	930	830	1	25610.0	25966	2	1	A	
JUN 30,83	JUN 29,83	830	800	1	26470.0	25967	2	1	A	
JUL 1,83	JUN 30,83	800	800	1	27280.0	25968	2	1		
JUL 2,83	JUL 1,83	800	800	1	27650.0	25969	2	1		
JUL 3,83	JUL 2,83	800	800	1	27670.0	25970	2	1		
JUL 5,83	JUL 3,83	800	800	1	54510.0	25971	2	1	A	Z
JUL 6,83	JUL 5,83	800	800	1	26640.0	25973	2	1		
JUL 7,83	JUL 6,83	800	800	1	26640.0	25974	2	1		
JUL 8,83	JUL 7,83	800	800	1	28550.0	25975	2	1		
JUL 9,83	JUL 8,83	800	800	1	27950.0	25976	2	1		
JUL 10,83	JUL 9,83	800	800	1	29310.0	25977	2	1		
JUL 11,83	JUL 10,83	800	800	1	28430.0	25978	2	1		
JUL 12,83	JUL 11,83	800	800	1	28590.0	25979	2	1		
JUL 13,83	JUL 12,83	800	800	1	26120.0	25981	2	1		
JUL 14,83	JUL 13,83	800	800	1	26600.0	25982	2	1		
JUL 15,83	JUL 14,83	800	900	1	28690.0	25983	2	1	A	

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 868 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
JUN 4,83	JUN 2,83	3.72	5.14	0.40	1.778	0.08	0.48
JUN 5,83	JUN 4,83	8.04	0.77	0.44	0.659	0.02	0.46
JUN 6,83	JUN 5,83	0.49	4.46	0.15	0.705 <T	0.01	0.16
JUN 7,83	JUN 6,83	4.96	2.20	0.17	0.441 <M	0.01	0.17
JUN 8,83	JUN 7,83	0.39	0.72	0.03	0.212 <M	0.01	0.03
JUN 9,83	JUN 8,83	4.25	1.29	0.04	0.302 <M	0.01	0.04
JUN 10,83	JUN 9,83	4.18	2.75	0.33	0.756	0.04	0.37
JUN 11,83	JUN 10,83	7.83	7.38	0.34	1.329 <M	0.01	0.34
JUN 12,83	JUN 11,83	2.93	6.51	0.44	1.560	0.02	0.46
JUN 13,83	JUN 12,83	5.40	24.44	0.75	4.781 <M	0.01	0.75
JUN 14,83	JUN 13,83	2.99	17.92	0.72	3.976 <M	0.01	0.72
JUN 15,83	JUN 14,83	2.97	27.21	1.01	5.086 <M	0.01	1.01
JUN 16,83	JUN 15,83	5.61	27.19	1.05	4.124 <M	0.01	1.05
JUN 17,83	JUN 16,83	2.21	8.04	0.60	1.422 <M	0.01	0.60
JUN 19,83	JUN 17,83	3.79	3.14	0.41	0.851	0.01	0.42
JUN 20,83	JUN 19,83	0.92	1.60	0.14	0.434 <M	0.01	0.14
JUN 21,83	JUN 20,83	0.05	0.87	0.08	0.264 <M	0.01	0.08
JUN 22,83	JUN 21,83	0.37	1.65	0.17	0.247 <M	0.01	0.17
JUN 23,83	JUN 22,83	5.90	6.50	0.26	1.276	0.07	0.34
JUN 24,83	JUN 23,83	8.36	7.21	0.84	1.584	0.06	0.90
JUN 25,83	JUN 24,83	2.98	1.34	0.07	0.274 <M	0.01	0.07
JUN 26,83	JUN 25,83	1.91	0.55	0.07	0.591 <M	0.01	0.07
JUN 27,83	JUN 26,83	3.99	> 9.08	0.63	> 1.801 <M	0.01	0.63
JUN 28,83	JUN 27,83	0.17	0.32	0.04	0.044 <M	0.01	0.04
JUN 29,83	JUN 28,83	0.00	0.24	0.03	0.054 <M	0.01	0.03
JUN 30,83	JUN 29,83	0.08	0.38	0.05	0.048	0.03	0.07
JUL 1,83	JUN 30,83	7.60	11.69	0.94	1.099 <M	0.01	0.94
JUL 2,83	JUL 1,83	3.27	4.63	0.77	0.252 <M	0.01	0.77
JUL 3,83	JUL 2,83	0.50	2.21	0.17	0.169 <M	0.01	0.17
JUL 5,83	JUL 3,83	0.66	25.90	0.75	0.330 <M	0.00	0.75
JUL 6,83	JUL 5,83	7.16	15.26	0.82	4.052	0.00	0.82
JUL 7,83	JUL 6,83	0.06	0.22	0.04	0.102	0.00	0.04
JUL 8,83	JUL 7,83	1.43	1.74	0.13	0.350	0.05	0.18
JUL 9,83	JUL 8,83	4.10	7.25	0.63	1.860	0.00	0.63
JUL 10,83	JUL 9,83	0.00	0.20	0.06	0.071	0.00	0.06
JUL 11,83	JUL 10,83	0.00	0.25	0.04	<T 0.003	0.00	0.04
JUL 12,83	JUL 11,83	0.32	0.38	0.11	0.083	0.00	0.11
JUL 13,83	JUL 12,83	0.13	3.26	0.27	0.702	0.00	0.27
JUL 14,83	JUL 13,83	0.09	0.29	0.07	0.061 <M	0.01	0.07
JUL 15,83	JUL 14,83	3.28	8.85	0.46	1.738 <M	0.01	0.46

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUL 16,83	JUL 15,83	900	800	1	25850.0	25984	2	1	A	
JUL 18,83	JUL 16,83	800	800	1	55910.0	25985	2	1	A	Z
JUL 19,83	JUL 18,83	800	800	1	27960.0	25986	2	1		
JUL 20,83	JUL 19,83	800	800	1	25580.0	25988	2	1		
JUL 21,83	JUL 20,83	800	800	1	26730.0	25989	2	1		
JUL 22,83	JUL 21,83	800	800	1	26540.0	25990	2	1		
JUL 23,83	JUL 22,83	800	800	1	27610.0	25991	2	1		
JUL 26,83	JUL 23,83	800	830	1	85350.0	25992	2	1	A	Z
JUL 27,83	JUL 26,83	830	800	1	26070.0	25994	2	1		
JUL 28,83	JUL 27,83	800	800	1	24030.0	25995	2	1	A	
JUL 29,83	JUL 28,83	800	800	1	26340.0	25996	2	1		
JUL 30,83	JUL 29,83	800	800	1	26510.0	25997	2	1	J	
JUL 31,83	JUL 30,83	800	800	1	26930.0	25998	2	1		
AUG 1,83	JUL 31,83	800	800	1	21440.0	25999	2	1		
AUG 2,83	AUG 1,83	800	800	1	28320.0	26000	2	1		
AUG 3,83	AUG 2,83	800	800	1	26240.0	26002	2	1		
AUG 4,83	AUG 3,83	800	800	1	26590.0	26003	2	1		
AUG 5,83	AUG 4,83	800	800	1	25180.0	26004	2	1		
AUG 6,83	AUG 5,83	800	800	1	27530.0	26005	2	1		
AUG 7,83	AUG 6,83	800	800	1	25400.0	26006	2	1		
AUG 8,83	AUG 7,83	800	800	1	28570.0	26007	2	1		
AUG 9,83	AUG 8,83	800	800	1	26390.0	26008	2	1		
AUG 10,83	AUG 9,83	800	800	1	26750.0	26010	2	1		
AUG 11,83	AUG 10,83	800	800	1	27520.0	26011	2	1		
AUG 12,83	AUG 11,83	800	800	1	25000.0	26012	2	1		
AUG 13,83	AUG 12,83	800	800	1	23920.0	26013	2	1		
AUG 14,83	AUG 13,83	800	800	1	28630.0	26014	2	1		
AUG 15,83	AUG 14,83	800	800	1	28970.0	26015	2	1		
AUG 16,83	AUG 15,83	800	800	1	28330.0	26016	2	1		
AUG 17,83	AUG 16,83	800	800	1	25710.0	26018	2	1		
AUG 18,83	AUG 17,83	800	800	1	25540.0	26019	2	1		
AUG 19,83	AUG 18,83	800	800	1	25430.0	26020	2	1		
AUG 20,83	AUG 19,83	800	800	1	27230.0	26021	2	1		
AUG 21,83	AUG 20,83	800	800	1	25620.0	26022	2	1		
AUG 22,83	AUG 21,83	800	800	1	27520.0	26023	2	1		
AUG 23,83	AUG 22,83	800	800	1	25900.0	26024	2	1		
AUG 24,83	AUG 23,83	800	800	1	27000.0	26026	2	1		
AUG 25,83	AUG 24,83	800	800	1	23510.0	26027	2	1		
AUG 26,83	AUG 25,83	800	800	1	28100.0	26028	2	1		
AUG 27,83	AUG 26,83	800	800	1	28240.0	26029	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 808 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
JUL 16,83	JUL 15,83	1.38		17.83	0.41	0.051	<W	0.01	0.41
JUL 18,83	JUL 16,83	0.40		4.19	0.13	0.111	<W	0.00	0.13
JUL 19,83	JUL 18,83	0.17		0.59	0.08	0.065		0.02	0.10
JUL 20,83	JUL 19,83	0.16		0.84	0.10	0.093		0.03	0.14
JUL 21,83	JUL 20,83	0.38		0.57	0.06	0.126		0.02	0.08
JUL 22,83	JUL 21,83	0.38		0.57	0.05	0.165		0.01	0.06
JUL 23,83	JUL 22,83	0.85		0.50	0.04	0.113		0.01	0.05
JUL 26,83	JUL 23,83	1.06		1.13	0.10	0.263		0.01	0.11
JUL 27,83	JUL 26,83	1.12		0.72	0.05	0.176		0.01	0.07
JUL 28,83	JUL 27,83	1.07		4.28	0.22	0.451		0.06	0.29
JUL 29,83	JUL 28,83	6.82		19.40	0.92	3.410	<W	0.01	0.92
JUL 30,83	JUL 29,83	2.92		20.52	1.13	4.143	<W	0.01	1.13
JUL 31,83	JUL 30,83	0.99		3.82	0.23	0.690	<T	0.01	0.23
AUG 1,83	JUL 31,83	0.89		5.36	0.33	0.111	<W	0.01	0.33
AUG 2,83	AUG 1,83	0.41		1.42	0.13	0.312	<W	0.01	0.13
AUG 3,83	AUG 2,83	3.30		0.86	0.05	******	<W	0.01	0.05
AUG 4,83	AUG 3,83	1.24		3.84	0.00	0.863	<W	0.01	0.00
AUG 5,83	AUG 4,83	0.46		5.64	0.18	1.088	<W	0.01	0.18
AUG 6,83	AUG 5,83	0.92		14.22	0.48	1.387	<W	0.01	0.48
AUG 7,83	AUG 6,83	1.50		2.95	0.14	0.637	<T	0.01	0.15
AUG 8,83	AUG 7,83	0.46		0.61	0.09	0.129	<W	0.01	0.09
AUG 9,83	AUG 8,83	0.91		1.33	0.07	0.320		0.02	0.09
AUG 10,83	AUG 9,83	5.33		0.61	0.05	0.023	<W	0.01	0.05
AUG 11,83	AUG 10,83	0.72		0.64	0.04	1.119	<W	0.01	0.04
AUG 12,83	AUG 11,83	0.53		0.20	0.09	0.159	<W	0.01	0.09
AUG 13,83	AUG 12,83	0.13		0.47	0.04	0.098	<T	0.01	0.05
AUG 14,83	AUG 13,83	0.05		0.83	0.04	0.218		0.04	0.08
AUG 15,83	AUG 14,83	7.41		5.39	0.51	0.081		0.02	0.53
AUG 16,83	AUG 15,83	4.82		15.11	0.60	2.331		0.05	0.66
AUG 17,83	AUG 16,83	11.01		20.61	1.14	3.976	<W	0.01	1.14
AUG 18,83	AUG 17,83	15.82	>	9.79	0.95	5.821	<W	0.01	0.95
AUG 19,83	AUG 18,83	4.01		18.88	0.31	2.359	<W	0.01	0.31
AUG 20,83	AUG 19,83	2.03		7.44	0.25	1.771	<W	0.01	0.25
AUG 21,83	AUG 20,83	2.55		0.39	0.03	0.083	<W	0.01	0.03
AUG 22,83	AUG 21,83	1.89		0.64	0.08	0.148	<T	0.01	0.09
AUG 23,83	AUG 22,83	1.56		0.10	0.10	0.350	<W	0.01	0.10
AUG 24,83	AUG 23,83	0.04		0.14	0.06	0.132	<W	0.01	0.06
AUG 25,83	AUG 24,83	0.94		1.22	0.04	0.318	<W	0.01	0.04
AUG 26,83	AUG 25,83	0.70		3.43	0.12	0.836		0.07	0.20
AUG 27,83	AUG 26,83	3.59		13.54	0.68	2.921	<W	0.01	0.68

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
AUG 28,83	AUG 27,83	800	800	1	26830.0	26030	2	1		
AUG 29,83	AUG 28,83	800	800	1	26890.0	26031	2	1		
AUG 30,83	AUG 29,83	800	830	1	29480.0	26032	2	1	A	
AUG 31,83	AUG 30,83	830	800	1	24310.0	26034	2	1		
SEP 1,83	AUG 31,83	800	800	1	27070.0	26035	2	1		
SEP 2,83	SEP 1,83	800	800	1	27750.0	26036	2	1		
SEP 3,83	SEP 2,83	800	800	1	27650.0	26037	2	1		
SEP 4,83	SEP 3,83	800	800	1	27610.0	26038	2	1		
SEP 5,83	SEP 4,83	800	800	1	29090.0	26039	2	1		
SEP 6,83	SEP 5,83	800	800	1	29290.0	26040	2	1		
SEP 7,83	SEP 6,83	800	800	1	27060.0	26042	2	1		
SEP 8,83	SEP 7,83	800	800	1	27370.0	26043	2	1		
SEP 9,83	SEP 8,83	800	800	1	26990.0	26044	2	1	D	
SEP 10,83	SEP 9,83	800	800	1	26980.0	26045	2	1		
SEP 12,83	SEP 10,83	800	800	1	56770.0	26046	2	1	A	Z
SEP 13,83	SEP 12,83	800	800	1	28590.0	26047	2	1		
SEP 14,83	SEP 13,83	800	800	1	27030.0	26049	2	1	D	
SEP 15,83	SEP 14,83	800	800	1	26390.0	26050	2	1		
SEP 16,83	SEP 15,83	800	800	1	28600.0	26051	2	1		
SEP 17,83	SEP 16,83	800	800	1	27020.0	26052	2	1		
SEP 18,83	SEP 17,83	800	800	1	20730.0	26053	2	1		
SEP 19,83	SEP 18,83	800	800	1	26960.0	26054	2	1		
SEP 20,83	SEP 19,83	800	800	1	28960.0	26055	2	1		
SEP 21,83	SEP 20,83	800	800	1	26140.0	26057	2	1		
SEP 22,83	SEP 21,83	800	800	1	25940.0	26058	2	1		
SEP 23,83	SEP 22,83	800	800	1	26990.0	26059	2	1		
SEP 24,83	SEP 23,83	800	800	1	27900.0	26060	2	1		
SEP 25,83	SEP 24,83	800	800	1	24360.0	26061	2	1		
SEP 26,83	SEP 25,83	800	800	1	28150.0	26062	2	1		
SEP 27,83	SEP 26,83	800	800	1	27940.0	26063	2	1		
SEP 28,83	SEP 27,83	800	800	1	22900.0	26065	2	1	Q	
SEP 29,83	SEP 28,83	800	800	1	26210.0	26066	2	1		
SEP 30,83	SEP 29,83	800	800	1	25940.0	26067	2	1		
OCT 1,83	SEP 30,83	800	800	1	26790.0	26068	2	1		
OCT 2,83	OCT 1,83	800	800	1	29620.0	26069	2	1		
OCT 3,83	OCT 2,83	800	800	1	28950.0	26070	2	1		
OCT 4,83	OCT 3,83	800	800	1	28430.0	26071	2	1		
OCT 20,83	OCT 19,83	1315	1000	1	25420.0	26074	2	1	AQ	
OCT 21,83	OCT 20,83	1000	900	1	28070.0	26075	2	1	A	
OCT 25,83	OCT 21,83	900	800	1	118980.0	26076	2	1	A	Z

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
AUG 28,83	AUG 27,83	0.17	6.29	0.18	1.285	<W 0.01	0.18
AUG 29,83	AUG 28,83	2.43	5.53	0.06	0.901	<W 0.01	0.06
AUG 30,83	AUG 29,83	1.48	3.10	0.09	0.661	<W 0.01	0.09
AUG 31,83	AUG 30,83	0.05	0.41	0.08	0.069	<W 0.01	0.08
SEP 1,83	AUG 31,83	0.68	1.48	0.05	0.252	<W 0.01	0.05
SEP 2,83	SEP 1,83	1.45	1.44	0.05	0.224	<W 0.01	0.05
SEP 3,83	SEP 2,83	3.11	8.90	0.22	1.391	<W 0.01	0.22
SEP 4,83	SEP 3,83	3.81	17.02	0.48	1.148	<W 0.01	0.48
SEP 5,83	SEP 4,83	8.35	22.52	0.83	4.595	<W 0.01	0.83
SEP 6,83	SEP 5,83	10.02	31.07	0.85	4.905	<W 0.01	0.85
SEP 7,83	SEP 6,83	0.20	5.17	0.16	1.117	<W 0.01	0.16
SEP 8,83	SEP 7,83	0.08	0.96	0.05	0.014	<W 0.01	0.05
SEP 9,83	SEP 8,83	8.35	1.34	0.06	0.029	<W 0.01	0.06
SEP 10,83	SEP 9,83	5.57	12.05	0.55	2.957	<W 0.01	0.55
SEP 12,83	SEP 10,83	0.60	5.24	0.24	0.248	0.02	0.26
SEP 13,83	SEP 12,83	3.07	0.96	0.02	0.150	<W 0.01	0.02
SEP 14,83	SEP 13,83	3.20	1.11	0.06	0.262	<W 0.01	0.06
SEP 15,83	SEP 14,83	1.22	1.18	0.04	0.281	<W 0.01	0.04
SEP 16,83	SEP 15,83	3.02	1.66	0.03	0.358	<W 0.01	0.03
SEP 17,83	SEP 16,83	2.74	1.20	0.23	0.656	<W 0.01	0.23
SEP 18,83	SEP 17,83	1.03	5.01	0.30	0.928	<W 0.01	0.30
SEP 19,83	SEP 18,83	12.95	5.47	0.34	1.409	0.03	0.37
SEP 20,83	SEP 19,83	2.87	5.70	0.35	1.441	<W 0.01	0.35
SEP 21,83	SEP 20,83	9.05	5.82	0.67	1.634	<W 0.01	0.67
SEP 22,83	SEP 21,83	7.67	0.57	0.03	0.106	<W 0.01	0.03
SEP 23,83	SEP 22,83	0.84	0.04	0.03	0.048	<W 0.01	0.03
SEP 24,83	SEP 23,83	1.90	0.26	0.03	0.065	<W 0.01	0.03
SEP 25,83	SEP 24,83	1.32	0.81	0.15	0.355	0.02	0.17
SEP 26,83	SEP 25,83	13.80	0.00	0.87	0.693	<W 0.01	0.87
SEP 27,83	SEP 26,83	2.53	8.63	0.55	2.058	0.03	0.58
SEP 28,83	SEP 27,83	5.66	1.86	0.17	0.437	<W 0.01	0.17
SEP 29,83	SEP 28,83	1.03	2.67	0.10	0.639	<W 0.01	0.10
SEP 30,83	SEP 29,83	1.45	9.06	0.26	1.744	<W 0.01	0.26
OCT 1,83	SEP 30,83	10.03	19.78	0.81	3.033	<W 0.01	0.81
OCT 2,83	OCT 1,83	5.86	5.40	0.59	1.291	0.04	0.64
OCT 3,83	OCT 2,83	7.64	10.36	0.87	2.418	0.06	0.93
OCT 4,83	OCT 3,83	5.40	10.90	0.54	2.594	0.05	0.59
OCT 20,83	OCT 19,83	2.41	0.49	0.00	<T 0.002	<W 0.01	0.00
OCT 21,83	OCT 20,83	0.01	0.36	0.00	0.052	0.04	0.04
OCT 25,83	OCT 21,83	2.22	1.48	0.21	0.252	0.12	0.33

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 13

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
OCT 26,83	OCT 25,83	800	800	1	25320.0	26078	2	1		
OCT 27,83	OCT 26,83	800	800	1	28050.0	26079	2	1		
OCT 28,83	OCT 27,83	800	800	1	29820.0	26080	2	1		
OCT 29,83	OCT 28,83	800	800	1	29530.0	26081	2	1		
OCT 30,83	OCT 29,83	800	800	1	75600.0	26082	2	1	Q	
OCT 31,83	OCT 30,83	800	800	1	29460.0	26083	2	1		
NOV 1,83	OCT 31,83	800	800	1	28840.0	26084	2	1		
NOV 2,83	NOV 1,83	800	800	1	26190.0	26086	2	1	Q	
NOV 3,83	NOV 2,83	800	800	1	24560.0	26087	2	1		
NOV 4,83	NOV 3,83	800	800	1	29410.0	26088	2	1		
NOV 5,83	NOV 4,83	800	800	1	29720.0	26089	2	1		
NOV 6,83	NOV 5,83	800	800	1	11100.0	26090	2	1	AC	
NOV 7,83	NOV 6,83	800	800	1	28160.0	26091	2	1		
NOV 8,83	NOV 7,83	800	800	1	27770.0	26092	2	1		
NOV 9,83	NOV 8,83	800	800	1	25930.0	26094	2	1		
NOV 10,83	NOV 9,83	800	800	1	27240.0	26095	2	1		
NOV 11,83	NOV 10,83	800	800	1	27980.0	26096	2	1		
NOV 12,83	NOV 11,83	800	800	1	29760.0	26097	2	1		
NOV 13,83	NOV 12,83	800	800	1	27760.0	26098	2	1		
NOV 14,83	NOV 13,83	800	800	1	30640.0	26099	2	1		
NOV 15,83	NOV 14,83	800	830	1	30350.0	26100	2	1		
NOV 16,83	NOV 15,83	830	800	1	28180.0	26102	2	1		
NOV 17,83	NOV 16,83	800	800	1	27450.0	26103	2	1		
NOV 18,83	NOV 17,83	800	800	1	30330.0	26104	2	1		
NOV 19,83	NOV 18,83	800	800	1	31040.0	26105	2	1		
NOV 20,83	NOV 19,83	800	800	1	18680.0	26106	2	1	A	
NOV 21,83	NOV 20,83	800	800	1	28650.0	26107	2	1		
NOV 22,83	NOV 21,83	800	800	1	29680.0	26108	2	1		
NOV 23,83	NOV 22,83	800	800	1	27640.0	26110	2	1		
NOV 24,83	NOV 23,83	800	800	1	27360.0	26111	2	1		
NOV 25,83	NOV 24,83	800	800	1	29990.0	26112	2	1		
NOV 26,83	NOV 25,83	800	800	1	30440.0	26113	2	1		
NOV 27,83	NOV 26,83	800	800	1	12670.0	26114	2	1	AC	
NOV 28,83	NOV 27,83	800	800	1	31070.0	26115	2	1		
NOV 29,83	NOV 28,83	800	800	1	30150.0	26116	2	1		
NOV 30,83	NOV 29,83	800	800	1	27700.0	26118	2	1	A	
DEC 2,83	NOV 30,83	800	800	1	54670.0	26119	2	1	A	Z
DEC 5,83	DEC 2,83	800	900	1	91590.0	26120	2	1	A	Z
DEC 6,83	DEC 5,83	900	930	1	27930.0	26121	2	1	A	
DEC 7,83	DEC 6,83	930	800	1	26850.0	26123	2	1	A	

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 14

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
OCT 26,83	OCT 25,83	1.59	1.33	0.14	0.302	<W	0.01	0.14
OCT 27,83	OCT 26,83	1.20	0.27	0.04	0.012	<W	0.01	0.04
OCT 28,83	OCT 27,83	7.39	1.01	0.21	0.210		0.08	0.29
OCT 29,83	OCT 28,83	3.09	1.35	0.22	0.247		0.10	0.32
OCT 30,83	OCT 29,83	0.27	0.30	0.01	0.002	<W	0.00	0.01
OCT 31,83	OCT 30,83	0.66	1.15	0.07	0.253	<W	0.01	0.07
NOV 1,83	OCT 31,83	2.35	0.87	0.30	0.076	<T	0.01	0.31
NOV 2,83	NOV 1,83	18.35	5.96	1.26	1.287	<T	0.01	1.26
NOV 3,83	NOV 2,83	5.85	6.01	1.00	1.688		0.04	1.04
NOV 4,83	NOV 3,83	1.51	0.43	0.00	0.080		0.02	0.02
NOV 5,83	NOV 4,83	0.71	0.55	0.00	0.160	<W	0.01	0.00
NOV 6,83	NOV 5,83	0.10	1.01	0.05	0.433		0.07	0.12
NOV 7,83	NOV 6,83	2.35	1.78	0.09	0.203		0.02	0.11
NOV 8,83	NOV 7,83	11.03	2.39	0.26	0.674	<T	0.01	0.26
NOV 9,83	NOV 8,83	11.15	6.31	1.06	1.887		0.09	1.15
NOV 10,83	NOV 9,83	2.84	2.52	0.38	0.660	<W	0.01	0.38
NOV 11,83	NOV 10,83	5.60	3.84	0.00	0.651		0.02	0.02
NOV 12,83	NOV 11,83	1.48	0.42	0.06	0.109		0.02	0.08
NOV 13,83	NOV 12,83	1.20	1.04	0.02	0.206	<W	0.01	0.02
NOV 14,83	NOV 13,83	1.08	1.27	0.09	0.172	<W	0.01	0.09
NOV 15,83	NOV 14,83	5.54	3.67	0.61	0.724	<W	0.01	0.61
NOV 16,83	NOV 15,83	3.86	3.53	0.47	0.531	G	0.70	1.17
NOV 17,83	NOV 16,83	1.84	1.03	0.06	0.178	<W	0.01	0.06
NOV 18,83	NOV 17,83	1.61	1.18	0.07	0.126	<W	0.00	0.07
NOV 19,83	NOV 18,83	1.55	0.79	0.03	0.099		0.04	0.06
NOV 20,83	NOV 19,83	3.86	4.12	0.63	0.561	<W	0.01	0.63
NOV 21,83	NOV 20,83	5.98	4.78	0.83	1.151	<W	0.00	0.83
NOV 22,83	NOV 21,83	1.67	2.09	0.15	0.505	<T	0.00	0.16
NOV 23,83	NOV 22,83	0.44	1.70	0.07	0.004	<W	0.00	0.07
NOV 24,83	NOV 23,83	6.08	2.83	0.42	0.520	<W	0.01	0.42
NOV 25,83	NOV 24,83	0.85	3.00	0.31	0.600	<W	0.01	0.31
NOV 26,83	NOV 25,83	0.07	2.30	0.14	0.101	<W	0.01	0.14
NOV 27,83	NOV 26,83	13.52	4.05	0.20	0.006	<T	0.04	0.24
NOV 28,83	NOV 27,83	2.50	0.56	0.02	0.040	<W	0.01	0.02
NOV 29,83	NOV 28,83	2.37	1.91	0.22	0.039	<W	0.01	0.22
NOV 30,83	NOV 29,83	4.60	2.17	0.38	0.579		0.00	0.38
DEC 2,83	NOV 30,83	8.88	1.58	0.17	0.373		0.00	0.17
DEC 5,83	DEC 2,83	5.85	3.08	0.38	0.597		0.00	0.38
DEC 6,83	DEC 5,83	2.68	6.04	1.29	1.488		0.00	1.29
DEC 7,83	DEC 6,83	4.00	2.47	0.11	0.269		0.00	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08 PAGE : 15

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
DEC 8,83	DEC 7,83	800	800	1	29450.0	26124	2	1	A	
DEC 9,83	DEC 8,83	800	900	1	29000.0	26125	2	1	A	
DEC 10,83	DEC 9,83	900	900	1	27710.0	26126	2	1	A	
DEC 11,83	DEC 10,83	900	800	1	30230.0	26127	2	1		
DEC 12,83	DEC 11,83	800	800	1	30980.0	26128	2	1		
DEC 13,83	DEC 12,83	800	800	1	28020.0	26129	2	1		
DEC 14,83	DEC 13,83	800	800	1	27310.0	26131	2	1		
DEC 15,83	DEC 14,83	800	800	1	20670.0	26132	2	1	Q	
DEC 16,83	DEC 15,83	800	800	1	29490.0	26133	2	1		
DEC 18,83	DEC 16,83	800	800	1	60170.0	26134	2	1	A	Z
DEC 19,83	DEC 18,83	800	800	1	30390.0	26135	2	1		
DEC 21,83	DEC 19,83	800	800	1	61540.0	26136	2	1	A	Z
DEC 22,83	DEC 21,83	800	800	1	30380.0	26137	2	1		
DEC 23,83	DEC 22,83	800	800	1	29280.0	26138	2	1		
DEC 25,83	DEC 23,83	1200	800	1	51550.0	26140	2	1	A	Z
DEC 26,83	DEC 25,83	800	800	1	30270.0	26141	2	1		
DEC 27,83	DEC 26,83	800	800	1	29200.0	26142	2	1		
DEC 28,83	DEC 27,83	800	830	1	29320.0	26143	2	1		
DEC 29,83	DEC 28,83	830	800	1	28830.0	26144	2	1		
DEC 30,83	DEC 29,83	800	800	1	29550.0	26145	2	1		
DEC 31,83	DEC 30,83	800	800	1	28590.0	26147	2	1		
JAN 1,84	DEC 31,83	800	800	1	27570.0	26148	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR 808 PAGE : 16

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
DEC 8,83	DEC 7,83	14.60	1.19	0.06	0.172	<N	0.01	0.06
DEC 9,83	DEC 8,83	7.52	2.33	0.47	0.502	<T	0.01	0.48
DEC 10,83	DEC 9,83	3.96	2.35	0.64	0.677	<N	0.01	0.64
DEC 11,83	DEC 10,83	10.00	1.12	0.07	0.164	<N	0.01	0.07
DEC 12,83	DEC 11,83	3.54	1.33	0.21	0.399	<N	0.01	0.21
DEC 13,83	DEC 12,83	3.53	1.25	0.14	0.195	<N	0.01	0.14
DEC 14,83	DEC 13,83	8.58	1.97	0.12	0.149	<N	0.01	0.12
DEC 15,83	DEC 14,83	6.17	1.75	0.16	0.166	<N	0.01	0.16
DEC 16,83	DEC 15,83	13.94	4.11	0.61	1.084	<N	0.01	0.61
DEC 18,83	DEC 16,83	6.07	1.58	0.26	0.256	<N	0.00	0.26
DEC 19,83	DEC 18,83	9.14	1.52	0.10	0.185	<N	0.01	0.10
DEC 21,83	DEC 19,83	17.22	1.60	0.09	0.231	<T	0.00	0.09
DEC 22,83	DEC 21,83	5.52	1.23	0.18	0.309	<T	0.01	0.18
DEC 23,83	DEC 22,83	8.69	3.07	0.22	0.341	<N	0.01	0.22
DEC 25,83	DEC 23,83	4.24	1.53	0.06	0.133		0.08	0.14
DEC 26,83	DEC 25,83	1.34	0.87	0.07	0.159		0.02	0.09
DEC 27,83	DEC 26,83	15.32	3.68	0.70	0.820	<N	0.01	0.70
DEC 28,83	DEC 27,83	19.35	4.39	1.18	1.175		0.02	1.20
DEC 29,83	DEC 28,83	21.82	4.12	0.40	0.736	<N	0.01	0.40
DEC 30,83	DEC 29,83	3.88	1.27	0.17	0.264		0.06	0.23
DEC 31,83	DEC 30,83	13.80	3.41	0.81	0.860		0.03	0.84
JAN 1,84	DEC 31,83	23.44	3.26	0.76	0.830		0.11	0.87

PART V

SOUTHEASTERN REGION DAILY AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JAN 6,83	JAN 4,83	800	800	1	49870.0	20744	2	1	A	Z
JAN 7,83	JAN 6,83	800	800	1	28230.0	20745	2	1		
JAN 8,83	JAN 7,83	800	800	1	28320.0	20746	2	1		
JAN 9,83	JAN 8,83	800	800	1	29830.0	20747	2	1		
JAN 10,83	JAN 9,83	800	800	1	29950.0	20748	2	1		
JAN 11,83	JAN 10,83	800	800	1	27200.0	20749	2	1		
JAN 12,83	JAN 11,83	800	800	1	26860.0	20751	2	1		
JAN 13,83	JAN 12,83	800	800	1	29790.0	20752	2	1		
JAN 14,83	JAN 13,83	800	800	1	29350.0	20753	2	1		
JAN 16,83	JAN 14,83	800	800	1	55590.0	20754	2	1		
JAN 17,83	JAN 16,83	800	800	1	28120.0	20755	2	1		Z
JAN 18,83	JAN 17,83	800	800	1	29380.0	20756	2	1		
JAN 19,83	JAN 18,83	800	800	1	29690.0	20758	2	1		
JAN 20,83	JAN 19,83	800	800	1	29580.0	20759	2	1		
JAN 21,83	JAN 20,83	800	800	1	28670.0	20760	2	1		
JAN 22,83	JAN 21,83	800	800	1	27800.0	20761	2	1		
JAN 23,83	JAN 22,83	800	800	1	30910.0	20762	2	1		
JAN 24,83	JAN 23,83	800	800	1	25160.0	20763	2	1		
JAN 25,83	JAN 24,83	800	800	1	26960.0	20764	2	1		
JAN 26,83	JAN 25,83	800	800	1	29380.0	20770	2	1		
JAN 27,83	JAN 26,83	800	800	1	29720.0	20771	2	1		
JAN 28,83	JAN 27,83	800	800	1	28130.0	20772	2	1		
JAN 29,83	JAN 28,83	800	800	1	28920.0	20773	2	1		
JAN 30,83	JAN 29,83	800	800	1	27420.0	20774	2	1		
JAN 31,83	JAN 30,83	800	800	1	27230.0	20775	2	1		
FEB 1,83	JAN 31,83	800	800	1	26430.0	20776	2	1		
FEB 2,83	FEB 1,83	800	800	1	31040.0	20778	2	1		
FEB 3,83	FEB 2,83	800	800	1	25070.0	20779	2	1		
FEB 4,83	FEB 3,83	800	800	1	26840.0	20780	2	1		
FEB 5,83	FEB 4,83	800	800	1	30050.0	20781	2	1		
FEB 6,83	FEB 5,83	800	800	1	29440.0	20782	2	1		
FEB 7,83	FEB 6,83	800	800	1	29850.0	20783	2	1		
FEB 8,83	FEB 7,83	800	800	1	27720.0	20784	2	1		
FEB 9,83	FEB 8,83	800	800	1	30360.0	20786	2	1		
FEB 10,83	FEB 9,83	800	800	1	29960.0	20787	2	1		
FEB 11,83	FEB 10,83	800	800	1	29670.0	20788	2	1		
FEB 12,83	FEB 11,83	800	800	1	30130.0	20789	2	1		
FEB 13,83	FEB 12,83	800	800	1	29860.0	20790	2	1		
FEB 14,83	FEB 13,83	800	800	1	29480.0	20791	2	1		
FEB 15,83	FEB 14,83	800	800	1	27920.0	20792	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR 811 PAGE : 2

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3	
JAN 6,83	JAN 4,83		16.94		3.33		0.27		0.957		0.70		0.97	
JAN 7,83	JAN 6,83		9.74		5.14		0.52		1.539		0.54		1.06	
JAN 8,83	JAN 7,83		10.19		3.04		0.30		0.898		0.08		0.38	
JAN 9,83	JAN 8,83		8.53		1.26		0.05		0.360		0.08		0.12	
JAN 10,83	JAN 9,83		5.70		1.30		0.06		0.459		0.27		0.33	
JAN 11,83	JAN 10,83		3.40		2.71		0.18		0.139		0.05		0.23	
JAN 12,83	JAN 11,83		9.76		2.79		0.08		1.037		0.44		0.52	
JAN 13,83	JAN 12,83		2.03		0.92		0.11		0.204		0.09		0.20	
JAN 14,83	JAN 13,83		4.27		1.32		0.08		0.379		0.24		0.32	
JAN 16,83	JAN 14,83		12.93		2.84		0.23	>	0.899		0.69		0.91	
JAN 17,83	JAN 16,83		1.15		2.13		0.13		0.261		0.02		0.14	
JAN 18,83	JAN 17,83		1.89		0.98		0.02		0.134		0.07		0.09	
JAN 19,83	JAN 18,83		3.61		1.05		0.00		0.969		0.10		0.11	
JAN 20,83	JAN 19,83		10.43		1.65		0.01		0.133		0.05		0.06	
JAN 21,83	JAN 20,83		8.57		1.83		0.03		0.350		0.31		0.35	
JAN 22,83	JAN 21,83		7.50		2.07		0.04		0.731		0.52		0.56	
JAN 23,83	JAN 22,83		4.41		4.98		0.04		2.421		1.12		1.15	
JAN 24,83	JAN 23,83		11.53		5.76		0.77		0.939		0.35		1.12	
JAN 25,83	JAN 24,83		8.97		4.52		0.59		0.587		0.25		0.84	
JAN 26,83	JAN 25,83		2.21		2.00		0.16		0.624		0.03		0.19	
JAN 27,83	JAN 26,83		1.06		1.05		0.00		0.311		0.19		0.19	
JAN 28,83	JAN 27,83		2.10		1.87		0.12		0.531		0.37		0.49	
JAN 29,83	JAN 28,83		8.81		5.12		0.69		1.333		0.13		0.82	
JAN 30,83	JAN 29,83		24.20		12.33		0.99	G	4.367		0.85		1.84	
JAN 31,83	JAN 30,83		10.85		7.86		0.21		3.993		1.48		1.69	
FEB 1,83	JAN 31,83		5.37		3.12		0.38		0.891		0.00		0.39	
FEB 2,83	FEB 1,83		3.13		1.85		0.11		0.794		0.24		0.35	
FEB 3,83	FEB 2,83		2.05		4.03		0.12		1.465		0.50		0.62	
FEB 4,83	FEB 3,83		9.52		2.65		0.31		0.612	<M	0.01		0.31	
FEB 5,83	FEB 4,83		6.16		0.21		0.07		0.118	<M	0.01		0.07	
FEB 6,83	FEB 5,83		7.08		0.89		0.07		0.378		0.13		0.20	
FEB 7,83	FEB 6,83		6.28		2.14		0.03		0.467		0.54		0.58	
FEB 8,83	FEB 7,83		7.63		1.76		0.18		0.196		0.20		0.38	
FEB 9,83	FEB 8,83		2.71		3.41		0.11		0.025		0.00		0.11	
FEB 10,83	FEB 9,83		1.05		1.15		0.00		0.006		0.09		0.09	
FEB 11,83	FEB 10,83		2.41		1.25		0.01		0.382		0.11		0.13	
FEB 12,83	FEB 11,83		15.45		3.70		0.18		0.359		0.40		0.58	
FEB 13,83	FEB 12,83		5.51		2.07		0.08		0.848		0.40		0.48	
FEB 14,83	FEB 13,83		19.11		4.70		0.84		1.548		0.60		1.44	
FEB 15,83	FEB 14,83	U	73.19	U	14.49	U	2.20	U	1.785	U	0.16	U	2.36	

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
FEB 16,83	FEB 15,83	800	800	1	28100.0	20794	2	1		
FEB 17,83	FEB 16,83	800	800	1	28510.0	20795	2	1		
FEB 18,83	FEB 17,83	800	800	1	26760.0	20796	2	1		
FEB 19,83	FEB 18,83	800	800	1	29880.0	20797	2	1		
FEB 20,83	FEB 19,83	800	800	1	30110.0	20798	2	1		
FEB 21,83	FEB 20,83	800	800	1	29510.0	20799	2	1		
FEB 22,83	FEB 21,83	800	800	1	28990.0	20800	2	1		
FEB 23,83	FEB 22,83	800	800	1	25270.0	20802	2	1		
FEB 24,83	FEB 23,83	800	800	1	27580.0	20803	2	1		
FEB 25,83	FEB 24,83	800	****	1	27520.0	20804	2	1		
FEB 26,83	FEB 25,83	800	800	1	27430.0	20805	2	1		
FEB 27,83	FEB 26,83	800	800	1	27920.0	20806	2	1		
MAR 1,83	FEB 27,83	800	800	1	52160.0	20807	2	1		Z
MAR 2,83	MAR 1,83	800	800	1	27810.0	20813	2	1		
MAR 3,83	MAR 2,83	800	800	1	29350.0	20814	2	1		
MAR 4,83	MAR 3,83	800	800	1	28000.0	20815	2	1		
MAR 5,83	MAR 4,83	800	800	1	27060.0	20816	2	1		
MAR 6,83	MAR 5,83	800	800	1	27020.0	20817	2	1		
MAR 7,83	MAR 6,83	800	800	1	25890.0	20818	2	1		
MAR 8,83	MAR 7,83	800	800	1	27310.0	20819	2	1		
MAR 11,83	MAR 8,83	800	800	1	78560.0	20821	2	1	A	Z
MAR 12,83	MAR 11,83	800	800	1	27060.0	20822	2	1		
MAR 13,83	MAR 12,83	800	800	1	27140.0	20823	2	1		
MAR 14,83	MAR 13,83	800	800	1	26550.0	20824	2	1		
MAR 15,83	MAR 14,83	800	800	1	26470.0	20825	2	1		
MAR 16,83	MAR 15,83	800	800	1	24220.0	20827	2	1		
MAR 17,83	MAR 16,83	800	800	1	30390.0	20828	2	1	DF	X
MAR 18,83	MAR 17,83	800	800	1	26430.0	20829	2	1		
MAR 19,83	MAR 18,83	800	800	1	24150.0	20830	2	1		
MAR 20,83	MAR 19,83	800	800	1	23460.0	20831	2	1		
MAR 21,83	MAR 20,83	800	800	1	26650.0	20832	2	1		
MAR 22,83	MAR 21,83	800	800	1	27120.0	20833	2	1		
MAR 23,83	MAR 22,83	800	800	1	24980.0	20835	2	1		
MAR 24,83	MAR 23,83	800	800	1	27130.0	20836	2	1		
MAR 25,83	MAR 24,83	800	800	1	27190.0	20837	2	1		
MAR 26,83	MAR 25,83	800	800	1	27140.0	20838	2	1		
MAR 27,83	MAR 26,83	800	800	1	26690.0	20839	2	1		
MAR 28,83	MAR 27,83	800	800	1	23850.0	20840	2	1		
MAR 29,83	MAR 28,83	800	800	1	25500.0	20841	2	1		
MAR 30,83	MAR 29,83	800	800	1	27410.0	20843	2	1		X

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR 811 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
FEB 16,83	FEB 15,83	5.16	8.73	0.29	1.366		0.02	0.31
FEB 17,83	FEB 16,83	16.48	8.63	0.93	1.746		0.19	1.12
FEB 18,83	FEB 17,83	16.64	9.94	0.90	1.337	<W	0.01	0.90
FEB 19,83	FEB 18,83	5.03	2.38	0.14	0.856		0.43	0.56
FEB 20,83	FEB 19,83	10.93	4.58	0.28	1.521		1.06	1.35
FEB 21,83	FEB 20,83	15.45	5.63	0.80	1.984		0.97	1.76
FEB 22,83	FEB 21,83	8.49	5.55	0.52	0.267		0.08	0.60
FEB 23,83	FEB 22,83	10.20	4.51	0.10	1.301		0.68	0.78
FEB 24,83	FEB 23,83	1.44	2.63	0.14	0.277		0.04	0.18
FEB 25,83	FEB 24,83	8.36	1.95	0.05	0.299		0.05	0.11
FEB 26,83	FEB 25,83	1.33	1.82	0.07	0.231		0.08	0.15
FEB 27,83	FEB 26,83	2.11	1.93	0.08	0.499		0.20	0.28
MAR 1,83	FEB 27,83	22.05	4.81	0.50	1.581		0.69	1.19
MAR 2,83	MAR 1,83	29.47	9.35	1.19	2.782		0.85	2.03
MAR 3,83	MAR 2,83	4.32	2.27	0.22	0.618		0.03	0.25
MAR 4,83	MAR 3,83	2.02	3.61	0.12	0.980		0.08	0.20
MAR 5,83	MAR 4,83	8.42	2.26	0.11	0.818		0.30	0.42
MAR 6,83	MAR 5,83	9.60	3.05	0.14	1.286		0.88	1.02
MAR 7,83	MAR 6,83	3.87	9.23	0.41	1.620		1.24	1.64
MAR 8,83	MAR 7,83	2.68	4.06	0.14	1.360		0.66	0.80
MAR 11,83	MAR 8,83	0.54	0.59	0.01	0.249		0.09	0.11
MAR 12,83	MAR 11,83	0.39	1.06	0.05	0.211		0.02	0.07
MAR 13,83	MAR 12,83	0.88	0.97	0.02	0.135		0.01	0.03
MAR 14,83	MAR 13,83	1.28	0.61	0.02	0.176		0.06	0.08
MAR 15,83	MAR 14,83	16.97	3.63	0.30	1.733		0.90	1.19
MAR 16,83	MAR 15,83	1.36	1.19	0.09	0.352		0.04	0.13
MAR 17,83	MAR 16,83	******	******	******	******		******	******
MAR 18,83	MAR 17,83	9.61	6.85	1.10	1.573		0.19	1.29
MAR 19,83	MAR 18,83	4.00	3.62	0.20	1.071		0.26	0.45
MAR 20,83	MAR 19,83	4.78	1.54	0.07	0.706		0.38	0.46
MAR 21,83	MAR 20,83	2.27	3.42	0.05	0.528		0.03	0.07
MAR 22,83	MAR 21,83	6.10	3.69	0.27	0.240		0.08	0.35
MAR 23,83	MAR 22,83	1.68	0.85	0.17	0.240		0.05	0.22
MAR 24,83	MAR 23,83	3.00	1.94	0.03	0.393		0.03	0.06
MAR 25,83	MAR 24,83	3.26	2.11	0.05	0.440		0.06	0.11
MAR 26,83	MAR 25,83	1.30	1.89	0.05	0.411		0.06	0.10
MAR 27,83	MAR 26,83	2.69	2.25	0.09	0.474		0.05	0.13
MAR 28,83	MAR 27,83	8.60	4.40	0.17	1.306		0.23	0.40
MAR 29,83	MAR 28,83	0.92	3.38	0.26	0.810		0.03	0.29
MAR 30,83	MAR 29,83	******	******	******	******		******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
MAR 31,83	MAR 30,83	800	800	1	26790.0	20844	2	1		X
APR 1,83	MAR 31,83	800	800	1	27170.0	20845	2	1		X
APR 2,83	APR 1,83	800	800	1	26760.0	20846	2	1		X
APR 3,83	APR 2,83	800	800	1	26360.0	20847	2	1		X
APR 4,83	APR 3,83	800	800	1	25800.0	20848	2	1		X
APR 5,83	APR 4,83	800	800	1	26030.0	20849	2	1		
APR 6,83	APR 5,83	800	800	1	20990.0	20855	2	1		
APR 7,83	APR 6,83	800	800	1	28080.0	20856	2	1		
APR 8,83	APR 7,83	800	800	1	24570.0	20857	2	1		
APR 9,83	APR 8,83	800	800	1	26580.0	20858	2	1		
APR 10,83	APR 9,83	800	800	1	26360.0	20859	2	1		
APR 11,83	APR 10,83	800	800	1	23940.0	20860	2	1		
APR 12,83	APR 11,83	800	800	1	27970.0	20861	2	1		
APR 13,83	APR 12,83	800	800	1	21310.0	20863	2	1		
APR 14,83	APR 13,83	800	800	1	27580.0	20864	2	1		
APR 15,83	APR 14,83	800	800	1	26130.0	20865	2	1		
APR 17,83	APR 15,83	800	800	1	49820.0	20866	2	1	A	Z
APR 18,83	APR 17,83	800	800	1	26770.0	20867	2	1		
APR 19,83	APR 18,83	800	800	1	27200.0	20868	2	1		
APR 20,83	APR 19,83	800	800	1	18970.0	20870	2	1		
APR 21,83	APR 20,83	800	800	1	26180.0	20871	2	1		
APR 22,83	APR 21,83	800	800	1	25120.0	20872	2	1		
APR 23,83	APR 22,83	800	800	1	25750.0	20873	2	1		
APR 24,83	APR 23,83	800	800	1	26250.0	20874	2	1		
APR 26,83	APR 24,83	800	800	1	51020.0	20875	2	1	A	Z
APR 27,83	APR 26,83	800	800	1	25100.0	20877	2	1		
APR 28,83	APR 27,83	800	800	1	25940.0	20878	2	1		
APR 29,83	APR 28,83	800	800	1	25950.0	20879	2	1		
APR 30,83	APR 29,83	800	800	1	26610.0	20880	2	1		
MAY 3,83	APR 30,83	1000	1000	1	72780.0	20881	2	1		Z
MAY 8,83	MAY 3,83	1000	800	1	131180.0	20883	2	1		Z
MAY 10,83	MAY 8,83	800	800	1	76210.0	20884	2	1		Z
MAY 11,83	MAY 10,83	800	800	1	********	20890	2	1	AF	
MAY 12,83	MAY 11,83	800	800	1	********	20891	2	1	AF	
MAY 13,83	MAY 12,83	800	800	1	********	20892	2	1	AF	
MAY 14,83	MAY 13,83	800	800	1	********	20893	2	1	AF	
MAY 15,83	MAY 14,83	800	800	1	********	20894	2	1	AF	
MAY 16,83	MAY 15,83	800	800	1	********	20895	2	1	AF	
MAY 18,83	MAY 17,83	800	800	1	25600.0	20898	2	1		
MAY 19,83	MAY 18,83	800	800	1	26760.0	20899	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
MAR 31,83	MAR 30,83	******		******	******	******		******	******
APR 1,83	MAR 31,83	******		******	******	******		******	******
APR 2,83	APR 1,83	******		******	******	******		******	******
APR 3,83	APR 2,83	******		******	******	******		******	******
APR 4,83	APR 3,83	******		******	******	******		******	******
APR 5,83	APR 4,83	2.83		0.74	0.00	0.010		0.00	0.00
APR 6,83	APR 5,83	0.00		0.00	0.04	0.000		0.00	0.04
APR 7,83	APR 6,83	2.13		3.34	0.18	1.013		0.15	0.33
APR 8,83	APR 7,83	6.89		9.52	0.99	2.339		0.03	1.02
APR 9,83	APR 8,83	2.69		3.67	0.22	0.077		0.03	0.25
APR 10,83	APR 9,83	4.23		1.52	0.17	0.353		0.10	0.27
APR 11,83	APR 10,83	0.99		1.04	0.14	0.370		0.05	0.20
APR 12,83	APR 11,83	0.44		2.50	0.19	0.052	<W	0.01	0.19
APR 13,83	APR 12,83	0.02	<W	0.06	0.02	0.013	<W	0.01	0.02
APR 14,83	APR 13,83	5.98		1.90	0.37	0.478		0.08	0.45
APR 15,83	APR 14,83	3.37		4.82	0.41	0.631		0.18	0.59
APR 17,83	APR 15,83	2.85		3.85	0.25	0.722	<W	0.01	0.25
APR 18,83	APR 17,83	0.92		2.80	0.06	0.137		0.03	0.09
APR 19,83	APR 18,83	0.94		1.93	0.06	0.323		0.02	0.08
APR 20,83	APR 19,83	0.54		1.05	0.04	0.150	<T	0.01	0.05
APR 21,83	APR 20,83	2.36		0.26	0.08	0.139	<W	0.01	0.08
APR 22,83	APR 21,83	1.90		1.39	0.12	0.425		0.10	0.22
APR 23,83	APR 22,83	4.26		3.35	0.33	0.861		0.13	0.46
APR 24,83	APR 23,83	18.93		7.12	1.13	1.169		0.07	1.20
APR 26,83	APR 24,83	1.46		1.74	0.05	0.278	<W	0.00	0.05
APR 27,83	APR 26,83	1.04		2.34	0.24	0.548		0.16	0.40
APR 28,83	APR 27,83	14.48		7.02	0.70	1.985		1.23	1.93
APR 29,83	APR 28,83	3.93		3.42	0.36	0.874		0.37	0.73
APR 30,83	APR 29,83	13.74		5.86	0.21	1.502		0.12	0.34
MAY 3,83	APR 30,83	3.16		3.81	0.44	1.030		0.07	0.51
MAY 8,83	MAY 3,83	0.25		0.37	0.02	0.067		0.00	0.02
MAY 10,83	MAY 8,83	0.39		0.63	0.03	0.000		0.04	0.07
MAY 11,83	MAY 10,83	******		******	******	******		******	******
MAY 12,83	MAY 11,83	******		******	******	******		******	******
MAY 13,83	MAY 12,83	******		******	******	******		******	******
MAY 14,83	MAY 13,83	******		******	******	******		******	******
MAY 15,83	MAY 14,83	******		******	******	******		******	******
MAY 16,83	MAY 15,83	******		******	******	******		******	******
MAY 18,83	MAY 17,83	2.45	<W	0.05	0.09	0.099	<W	0.01	0.09
MAY 19,83	MAY 18,83	8.67		4.45	0.47	0.633		0.29	0.76

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
MAY 22,83	MAY 19,83	800	800	1	103650.0	20900	2	1	A	Z
MAY 23,83	MAY 22,83	800	800	1	26030.0	20901	2	1		
MAY 24,83	MAY 23,83	800	800	1	26020.0	20902	2	1		
MAY 27,83	MAY 24,83	800	800	1	76200.0	20904	2	1	A	Z
MAY 29,83	MAY 27,83	800	800	1	51560.0	20905	2	1	A	Z
MAY 31,83	MAY 29,83	800	800	1	49300.0	20906	2	1	A	Z
JUN 1,83	MAY 31,83	800	800	1	25830.0	20908	2	1		
JUN 2,83	JUN 1,83	800	800	1	25330.0	20909	2	1		
JUN 3,83	JUN 2,83	800	800	1	25940.0	20910	2	1		
JUN 4,83	JUN 3,83	800	800	1	24660.0	20911	2	1		
JUN 5,83	JUN 4,83	800	800	1	24440.0	20912	2	1		
JUN 6,83	JUN 5,83	800	800	1	25860.0	20913	2	1		
JUN 7,83	JUN 6,83	800	800	1	23650.0	20914	2	1		
JUN 22,83	JUN 14,83	930	740	1	202300.0	20922	2	1	A	Z
JUN 23,83	JUN 22,83	800	800	1	26230.0	20924	2	1		
JUN 24,83	JUN 23,83	800	800	1	25360.0	20925	2	1		
JUN 25,83	JUN 24,83	800	800	1	25060.0	20926	2	1		
JUN 26,83	JUN 25,83	800	800	1	25630.0	20927	2	1		
JUN 27,83	JUN 26,83	800	800	1	26120.0	20928	2	1		
JUN 28,83	JUN 27,83	800	800	1	26900.0	20929	2	1		
JUN 29,83	JUN 28,83	800	800	1	24390.0	20931	2	1		
JUN 30,83	JUN 29,83	800	800	1	24910.0	20932	2	1		
JUL 1,83	JUN 30,83	800	800	1	28060.0	20933	2	1		
JUL 2,83	JUL 1,83	800	800	1	27080.0	20934	2	1		
JUL 3,83	JUL 2,83	800	800	1	23900.0	20935	2	1		
JUL 4,83	JUL 3,83	800	800	1	26910.0	20936	2	1		
JUL 5,83	JUL 4,83	800	800	1	26660.0	20937	2	1		
JUL 6,83	JUL 5,83	800	800	1	25710.0	20943	2	1		
JUL 7,83	JUL 6,83	800	800	1	26800.0	20944	2	1		
JUL 8,83	JUL 7,83	800	800	1	28490.0	20945	2	1		
JUL 9,83	JUL 8,83	800	800	1	27880.0	20946	2	1		
JUL 10,83	JUL 9,83	800	800	1	28120.0	20947	2	1		
JUL 11,83	JUL 10,83	800	800	1	27620.0	20948	2	1		
JUL 12,83	JUL 11,83	800	800	1	25890.0	20949	2	1		
JUL 13,83	JUL 12,83	800	800	1	25200.0	20951	2	1		
JUL 14,83	JUL 13,83	800	800	1	21540.0	20952	2	1		
JUL 15,83	JUL 14,83	800	800	1	27810.0	20953	2	1		
JUL 16,83	JUL 15,83	800	800	1	26520.0	20954	2	1		
JUL 17,83	JUL 16,83	800	800	1	26570.0	20955	2	1		
JUL 18,83	JUL 17,83	800	800	1	27360.0	20956	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 8

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
MAY 22,83	MAY 19,83		3.35		7.93	0.61		1.876		******	******
MAY 23,83	MAY 22,83		5.21		5.57	0.63		1.408		0.08	0.71
MAY 24,83	MAY 23,83	<W	0.07	<W	0.05	0.00		0.000	<W	0.01	0.00
MAY 27,83	MAY 24,83		3.77		2.97	0.31		0.693		0.20	0.51
MAY 29,83	MAY 27,83		4.27		6.83	0.44		0.975		0.19	0.64
MAY 31,83	MAY 29,83		2.44		2.88	0.25		0.844		0.15	0.40
JUN 1,83	MAY 31,83		12.45		7.55	0.88		0.727		0.26	1.14
JUN 2,83	JUN 1,83		3.37		5.49	0.34		0.674		0.15	0.49
JUN 3,83	JUN 2,83		5.15		2.60	0.36		0.627		0.27	0.63
JUN 4,83	JUN 3,83		8.53		9.33	0.74		2.120		0.19	0.94
JUN 5,83	JUN 4,83		3.65		8.18	0.38		2.139		0.13	0.52
JUN 6,83	JUN 5,83		8.81		9.59	1.15		2.079		0.06	1.20
JUN 7,83	JUN 6,83		3.35		1.95	0.54		0.362		0.11	0.64
JUN 22,83	JUN 14,83		5.81		2.22	0.49		******	<W	0.00	0.49
JUN 23,83	JUN 22,83		2.23		3.27	0.50		******		0.15	0.65
JUN 24,83	JUN 23,83		16.59		16.54	1.58		******		0.13	1.72
JUN 25,83	JUN 24,83		1.70		0.73	0.18		******		0.04	0.22
JUN 26,83	JUN 25,83		2.54		16.56	0.33		******		0.03	0.37
JUN 27,83	JUN 26,83		6.92		7.71	0.69		******		0.17	0.86
JUN 28,83	JUN 27,83		4.62		3.19	0.56		******		0.09	0.65
JUN 29,83	JUN 28,83		2.12		0.49	0.02		******		0.08	0.10
JUN 30,83	JUN 29,83		0.94		0.80	0.16		******		0.06	0.22
JUL 1,83	JUN 30,83		10.13		5.13	0.92		******		0.12	1.04
JUL 2,83	JUL 1,83		10.36		15.51	1.16		******	<W	0.01	1.16
JUL 3,83	JUL 2,83		2.73		5.61	0.73		******		0.16	0.89
JUL 4,83	JUL 3,83		8.03		14.42	1.18		******		0.19	1.36
JUL 5,83	JUL 4,83		6.17		11.07	0.79		******	<W	0.01	0.79
JUL 6,83	JUL 5,83		1.04		1.26	0.22	P	0.209		0.07	0.29
JUL 7,83	JUL 6,83		1.16		0.28	0.06		0.059		0.07	0.12
JUL 8,83	JUL 7,83		3.82		1.97	0.24		0.503		0.19	0.43
JUL 9,83	JUL 8,83		11.43		8.54	1.05		******		0.20	1.25
JUL 10,83	JUL 9,83		0.39		0.80	0.08		0.072		0.02	0.10
JUL 11,83	JUL 10,83		1.34		0.81	0.10		0.150		0.07	0.17
JUL 12,83	JUL 11,83		6.65		4.40	0.50		1.133		0.30	0.80
JUL 13,83	JUL 12,83		8.72		8.37	0.90		1.855		0.11	1.01
JUL 14,83	JUL 13,83		0.19		0.41	0.07		0.090		0.03	0.10
JUL 15,83	JUL 14,83		3.73		4.17	0.38		0.796		0.11	0.49
JUL 16,83	JUL 15,83		2.37		11.31	0.41		2.230	<W	0.01	0.41
JUL 17,83	JUL 16,83		0.39		0.42	0.04		0.094		0.02	0.06
JUL 18,83	JUL 17,83		0.65		1.23	0.11		0.285		0.05	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUL 19,83	JUL 18,83	800	800	1	27480.0	20957	2	1		
JUL 20,83	JUL 19,83	800	800	1	27520.0	20959	2	1		
JUL 21,83	JUL 20,83	800	800	1	26790.0	20960	2	1		
JUL 22,83	JUL 21,83	800	800	1	27560.0	20961	2	1		
JUL 23,83	JUL 22,83	800	800	1	27230.0	20962	2	1		
JUL 24,83	JUL 23,83	800	800	1	27110.0	20963	2	1		
JUL 25,83	JUL 24,83	800	800	1	26400.0	20964	2	1		
JUL 26,83	JUL 25,83	800	800	1	27640.0	20965	2	1		
JUL 27,83	JUL 26,83	800	800	1	27910.0	20971	2	1		
JUL 28,83	JUL 27,83	800	800	1	26540.0	20972	2	1		
JUL 29,83	JUL 28,83	800	800	1	27310.0	20973	2	1		
JUL 30,83	JUL 29,83	800	800	1	27190.0	20974	2	1		
JUL 31,83	JUL 30,83	800	800	1	26170.0	20975	2	1		
AUG 1,83	JUL 31,83	800	800	1	24780.0	20976	2	1		
AUG 2,83	AUG 1,83	800	800	1	26670.0	20977	2	1		
AUG 3,83	AUG 2,83	800	800	1	25970.0	20979	2	1		
AUG 4,83	AUG 3,83	800	800	1	26560.0	20980	2	1		
AUG 5,83	AUG 4,83	800	800	1	26860.0	20981	2	1		
AUG 6,83	AUG 5,83	800	800	1	25910.0	20982	2	1		
AUG 7,83	AUG 6,83	800	800	1	25030.0	20983	2	1		
AUG 8,83	AUG 7,83	800	800	1	26370.0	20984	2	1		
AUG 9,83	AUG 8,83	800	800	1	26140.0	20985	2	1		
AUG 10,83	AUG 9,83	800	800	1	26990.0	20987	2	1		
AUG 11,83	AUG 10,83	800	800	1	26130.0	20988	2	1		
AUG 12,83	AUG 11,83	800	800	1	27780.0	20989	2	1		
AUG 13,83	AUG 12,83	800	800	1	27150.0	20990	2	1		
AUG 14,83	AUG 13,83	800	800	1	26900.0	20991	2	1		
AUG 15,83	AUG 14,83	800	800	1	26890.0	20992	2	1		
AUG 16,83	AUG 15,83	800	800	1	27290.0	20993	2	1		
AUG 17,83	AUG 16,83	800	800	1	26340.0	21009	2	1		
AUG 18,83	AUG 17,83	800	800	1	26370.0	21010	2	1		
AUG 19,83	AUG 18,83	800	800	1	25240.0	21011	2	1		
AUG 20,83	AUG 19,83	800	800	1	26820.0	21012	2	1		
AUG 21,83	AUG 20,83	800	800	1	27030.0	21013	2	1		
AUG 22,83	AUG 21,83	800	800	1	27570.0	21014	2	1		
AUG 23,83	AUG 22,83	800	800	1	26030.0	21015	2	1		
AUG 24,83	AUG 23,83	800	800	1	27560.0	21017	2	1		
AUG 25,83	AUG 24,83	800	800	1	26540.0	21018	2	1		
AUG 26,83	AUG 25,83	800	800	1	26980.0	21019	2	1		
AUG 27,83	AUG 26,83	800	800	1	26660.0	21020	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR 811

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3	
JUL 19,83	JUL 18,83		0.62		1.55		0.13		0.380		0.03		0.15	
JUL 20,83	JUL 19,83		1.26		1.09		0.12		0.227		0.04		0.16	
JUL 21,83	JUL 20,83		3.13		1.26		0.17		0.255		0.07		0.24	
JUL 22,83	JUL 21,83		1.22		0.91		0.14		0.181		0.05		0.18	
JUL 23,83	JUL 22,83		0.81		0.51		0.05		0.073		0.04		0.09	
JUL 24,83	JUL 23,83		3.12		3.64		0.30		0.313		0.09		0.39	
JUL 25,83	JUL 24,83		3.08		5.34		0.46		0.094		0.02		0.48	
JUL 26,83	JUL 25,83		0.80		0.27		0.11		0.122	<W	0.01		0.11	
JUL 27,83	JUL 26,83		0.31		0.94		0.07		0.080		0.13		0.19	
JUL 28,83	JUL 27,83		6.06		5.35		0.72		1.077		0.25		0.97	
JUL 29,83	JUL 28,83	G	22.47		27.02		1.67		4.452	<W	0.01		1.67	
JUL 30,83	JUL 29,83		5.35		9.75		0.24		2.651		0.17		0.41	
JUL 31,83	JUL 30,83		1.28		5.04		0.17		1.340		0.06		0.23	
AUG 1,83	JUL 31,83		1.79		7.83		0.16		2.081		0.03		0.19	
AUG 2,83	AUG 1,83		3.35		6.41		0.40		1.296		0.04		0.43	
AUG 3,83	AUG 2,83		1.29		1.04		0.16		0.179		0.03		0.18	
AUG 4,83	AUG 3,83		4.89		6.83		0.81		1.892		0.04		0.85	
AUG 5,83	AUG 4,83		7.22		14.05		1.35		3.360	<W	0.01		1.35	
AUG 6,83	AUG 5,83		5.85		25.22		1.29		5.471	<W	0.01		1.29	
AUG 7,83	AUG 6,83		1.19		10.77		0.49		2.447	<W	0.01		0.49	
AUG 8,83	AUG 7,83		2.53		3.30		0.28		0.855		0.10		0.38	
AUG 9,83	AUG 8,83		7.12		5.72		0.67		1.329		0.10		0.76	
AUG 10,83	AUG 9,83		0.65		0.39		0.04		0.055		0.06		0.10	
AUG 11,83	AUG 10,83		0.22		0.48		0.07		0.045		0.13		0.20	
AUG 12,83	AUG 11,83		0.84		2.38		0.21		0.041		0.05		0.26	
AUG 13,83	AUG 12,83		0.46		1.70		0.22		0.344		0.05		0.27	
AUG 14,83	AUG 13,83		1.45		0.19		0.00		0.020		0.18		0.18	
AUG 15,83	AUG 14,83		1.58		2.09		0.21		0.317	<T	0.01		0.22	
AUG 16,83	AUG 15,83		1.06		0.82		0.35		0.197		0.04		0.39	
AUG 17,83	AUG 16,83		4.01		10.82		0.84		2.496		0.09		0.92	
AUG 18,83	AUG 17,83	U	13.92	U	61.51	U	1.66	U	3.904	U	0.01	U	1.67	
AUG 19,83	AUG 18,83	U	3.50	U	68.22	U	0.60	U	6.575	U	0.01	U	0.61	
AUG 20,83	AUG 19,83		6.35		18.83		0.57		5.218		0.06		0.62	
AUG 21,83	AUG 20,83		2.03		1.02		0.09		0.263		0.02		0.11	
AUG 22,83	AUG 21,83		0.57		1.18		0.08		0.127		0.05		0.13	
AUG 23,83	AUG 22,83		0.57		2.11		0.11		0.498		0.06		0.17	
AUG 24,83	AUG 23,83		1.37		0.41		0.03		0.158	<W	0.01		0.03	
AUG 25,83	AUG 24,83		0.76		0.66		0.09		0.119	<T	0.01		0.10	
AUG 26,83	AUG 25,83		1.83		3.89		0.22		0.500		0.08		0.30	
AUG 27,83	AUG 26,83		9.75		17.10		1.27		3.777	<T	0.01		1.28	

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
AUG 28,83	AUG 27,83	800	800	1	24940.0	21021	2	1		
AUG 29,83	AUG 28,83	800	800	1	26830.0	21022	2	1		
AUG 30,83	AUG 29,83	800	800	1	26300.0	21023	2	1		
AUG 31,83	AUG 30,83	800	800	1	25060.0	21025	2	1		
SEP 1,83	AUG 31,83	800	800	1	26300.0	21026	2	1		
SEP 2,83	SEP 1,83	800	800	1	26810.0	21027	2	1		
SEP 3,83	SEP 2,83	800	800	1	25920.0	21028	2	1		
SEP 4,83	SEP 3,83	800	800	1	25270.0	21029	2	1		
SEP 5,83	SEP 4,83	800	800	1	25600.0	21030	2	1		
SEP 6,83	SEP 5,83	800	800	1	26000.0	21031	2	1		
SEP 7,83	SEP 6,83	800	800	1	26570.0	21033	2	1		
SEP 8,83	SEP 7,83	800	800	1	26770.0	21034	2	1		
SEP 9,83	SEP 8,83	800	800	1	26640.0	21035	2	1		
SEP 10,83	SEP 9,83	800	800	1	27280.0	21036	2	1		
SEP 11,83	SEP 10,83	800	800	1	25680.0	21037	2	1		
SEP 12,83	SEP 11,83	800	800	1	26980.0	21038	2	1		
SEP 13,83	SEP 12,83	800	800	1	28180.0	21039	2	1		
SEP 14,83	SEP 13,83	800	800	1	********	21041	2	1		
SEP 15,83	SEP 14,83	800	800	1	********	21042	2	1		
SEP 16,83	SEP 15,83	800	800	1	********	21043	2	1		
SEP 17,83	SEP 16,83	800	800	1	********	21044	2	1		
SEP 18,83	SEP 17,83	800	800	1	********	21045	2	1		
SEP 19,83	SEP 18,83	800	800	1	********	21046	2	1		
SEP 20,83	SEP 19,83	800	800	1	********	21047	2	1		
SEP 21,83	SEP 20,83	800	800	1	********	21049	2	1		
SEP 22,83	SEP 21,83	800	800	1	24410.0	21050	2	1		
SEP 23,83	SEP 22,83	800	800	1	27370.0	21051	2	1		
SEP 24,83	SEP 23,83	800	800	1	23480.0	21052	2	1		
SEP 25,83	SEP 24,83	800	800	1	27730.0	21053	2	1		
SEP 26,83	SEP 25,83	800	800	1	27510.0	21054	2	1		
SEP 27,83	SEP 26,83	800	800	1	********	21055	2	1		
SEP 28,83	SEP 27,83	800	800	1	26310.0	21057	2	1		
SEP 29,83	SEP 28,83	800	800	1	27290.0	21058	2	1		
SEP 30,83	SEP 29,83	800	800	1	26550.0	21059	2	1		
OCT 1,83	SEP 30,83	800	800	1	26850.0	21060	2	1		
OCT 2,83	OCT 1,83	800	800	1	25550.0	21061	2	1		
OCT 3,83	OCT 2,83	800	800	1	26150.0	21062	2	1		
OCT 4,83	OCT 3,83	800	800	1	26000.0	21063	2	1		
OCT 5,83	OCT 4,83	800	800	1	25090.0	21065	2	1		
OCT 6,83	OCT 5,83	800	800	1	24030.0	21066	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 12

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
AUG 28,83	AUG 27,83		3.89		6.10	0.20	1.439	<T	0.01	0.20
AUG 29,83	AUG 28,83		0.59		1.82	0.09	0.362	<W	0.01	0.09
AUG 30,83	AUG 29,83		1.15		1.66	0.16	0.002		0.03	0.19
AUG 31,83	AUG 30,83		1.52		2.94	0.34	0.180	<W	0.01	0.34
SEP 1,83	AUG 31,83		3.57		4.66	0.52	0.812		0.06	0.57
SEP 2,83	SEP 1,83		2.85		1.12	0.12	0.138		0.24	0.37
SEP 3,83	SEP 2,83		6.15		5.98	1.06	0.623		0.04	1.09
SEP 4,83	SEP 3,83		6.41		14.96	1.13	3.781		0.19	1.32
SEP 5,83	SEP 4,83	G	20.85		23.12	1.50	5.092		0.04	1.54
SEP 6,83	SEP 5,83		15.17		27.00	0.98	5.552	<T	0.01	0.99
SEP 7,83	SEP 6,83		14.17		15.03	0.83	3.386		0.17	1.00
SEP 8,83	SEP 7,83		0.00		0.63	0.07	0.162		0.10	0.17
SEP 9,83	SEP 8,83		3.18		2.28	0.22	0.515		0.27	0.49
SEP 10,83	SEP 9,83		20.34		16.48	1.51	4.015		0.27	1.77
SEP 11,83	SEP 10,83		11.35		15.48	1.12	3.954		0.46	1.58
SEP 12,83	SEP 11,83		0.93		0.21	0.17	0.229		0.03	0.20
SEP 13,83	SEP 12,83		5.03		1.53	0.10	0.345		0.04	0.15
SEP 14,83	SEP 13,83		******		******	******	******		******	******
SEP 15,83	SEP 14,83		******		******	******	******		******	******
SEP 16,83	SEP 15,83		******		******	******	******		******	******
SEP 17,83	SEP 16,83		******		******	******	******		******	******
SEP 18,83	SEP 17,83		******		******	******	******		******	******
SEP 19,83	SEP 18,83		******		******	******	******		******	******
SEP 20,83	SEP 19,83		******		******	******	******		******	******
SEP 21,83	SEP 20,83		******		******	******	******		******	******
SEP 22,83	SEP 21,83		2.16		0.26	0.13	0.395	<W	0.01	0.13
SEP 23,83	SEP 22,83		1.26		1.60	0.11	0.219		0.04	0.15
SEP 24,83	SEP 23,83		1.35		0.59	0.03	0.194	<W	0.01	0.03
SEP 25,83	SEP 24,83		2.50	<W	0.05	0.14	0.061	<W	0.01	0.14
SEP 26,83	SEP 25,83		10.87		0.68	0.83	1.352	G	1.27	2.09
SEP 27,83	SEP 26,83		******		******	******	******		******	******
SEP 28,83	SEP 27,83		1.22		4.66	0.40	1.219		0.02	0.42
SEP 29,83	SEP 28,83		2.91		1.60	0.20	0.353		0.06	0.26
SEP 30,83	SEP 29,83		1.20		2.12	0.25	0.379	<W	0.01	0.25
OCT 1,83	SEP 30,83		1.84		2.09	0.42	0.710		0.12	0.54
OCT 2,83	OCT 1,83		1.57		1.71	0.20	0.523		0.03	0.23
OCT 3,83	OCT 2,83		8.58		0.24	0.96	0.234	<W	0.01	0.96
OCT 4,83	OCT 3,83		19.27		17.54	1.06	4.803		0.31	1.37
OCT 5,83	OCT 4,83		2.04		3.14	0.16	0.823		0.07	0.23
OCT 6,83	OCT 5,83		0.54		0.67	0.08	0.306	<W	0.01	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
OCT 7,83	OCT 6,83	800	800	1	27700.0	21067	2	1		
OCT 8,83	OCT 7,83	800	800	1	28380.0	21068	2	1		
OCT 9,83	OCT 8,83	800	800	1	26790.0	21069	2	1		
OCT 10,83	OCT 9,83	800	800	1	27590.0	21070	2	1		
OCT 11,83	OCT 10,83	800	800	1	25980.0	21071	2	1		
OCT 12,83	OCT 11,83	800	800	1	28700.0	21077	2	1		
OCT 13,83	OCT 12,83	800	800	1	24690.0	21078	2	1		
OCT 14,83	OCT 13,83	800	800	1	24100.0	21079	2	1		
OCT 15,83	OCT 14,83	800	800	1	28560.0	21080	2	1		
OCT 16,83	OCT 15,83	800	800	1	28200.0	21081	2	1		
OCT 17,83	OCT 16,83	800	800	1	28820.0	21082	2	1		
OCT 18,83	OCT 17,83	800	800	1	28440.0	21083	2	1		
OCT 19,83	OCT 18,83	800	800	1	25770.0	21085	2	1		
OCT 20,83	OCT 19,83	800	800	1	29180.0	21086	2	1		
OCT 21,83	OCT 20,83	800	800	1	29610.0	21087	2	1		
OCT 22,83	OCT 21,83	800	800	1	29770.0	21088	2	1		
OCT 23,83	OCT 22,83	800	800	1	28330.0	21089	2	1		
OCT 24,83	OCT 23,83	800	800	1	25950.0	21090	2	1		
OCT 25,83	OCT 24,83	800	800	1	28830.0	21091	2	1		
OCT 26,83	OCT 25,83	800	800	1	29010.0	21097	2	1		
OCT 27,83	OCT 26,83	800	800	1	28760.0	21098	2	1		
OCT 28,83	OCT 27,83	800	800	1	29180.0	21099	2	1		
OCT 29,83	OCT 28,83	800	800	1	29210.0	21100	2	1		
OCT 30,83	OCT 29,83	800	800	1	29290.0	21101	2	1		
OCT 31,83	OCT 30,83	800	800	1	29370.0	21102	2	1		
NOV 1,83	OCT 31,83	800	800	1	27310.0	21103	2	1		
NOV 2,83	NOV 1,83	800	800	1	28000.0	21105	2	1		
NOV 3,83	NOV 2,83	800	800	1	28920.0	21106	2	1		
NOV 4,83	NOV 3,83	800	800	1	29020.0	21107	2	1		
NOV 5,83	NOV 4,83	800	800	1	28700.0	21108	2	1		
NOV 6,83	NOV 5,83	800	800	1	29100.0	21109	2	1		
NOV 7,83	NOV 6,83	800	800	1	27980.0	21110	2	1		
NOV 8,83	NOV 7,83	800	800	1	28540.0	21111	2	1		
NOV 9,83	NOV 8,83	800	800	1	27380.0	21113	2	1		
NOV 10,83	NOV 9,83	800	800	1	27580.0	21114	2	1		
NOV 11,83	NOV 10,83	800	800	1	26700.0	21115	2	1		
NOV 12,83	NOV 11,83	800	800	1	26000.0	21116	2	1		
NOV 13,83	NOV 12,83	800	800	1	28140.0	21117	2	1		
NOV 14,83	NOV 13,83	800	800	1	26650.0	21118	2	1		
NOV 15,83	NOV 14,83	800	800	1	27250.0	21119	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR 811 PAGE : 14

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3	NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
OCT 7,83	OCT 6,83	0.88	<W	0.05	0.07		0.074	<W	0.01	0.07
OCT 8,83	OCT 7,83	4.62		0.79	0.08		0.282	<T	0.01	0.09
OCT 9,83	OCT 8,83	5.33		1.35	0.17		0.709	<W	0.01	0.17
OCT 10,83	OCT 9,83	1.92		0.23	0.08		0.221	<W	0.01	0.08
OCT 11,83	OCT 10,83	3.54		0.77	0.24		0.269		0.02	0.26
OCT 12,83	OCT 11,83	1.91		0.78	0.31		0.050		0.06	0.37
OCT 13,83	OCT 12,83	0.23		1.72	0.22		0.275		0.23	0.45
OCT 14,83	OCT 13,83	2.04		1.87	0.34		0.346		0.03	0.37
OCT 15,83	OCT 14,83	3.08		1.31	0.22		0.332		0.04	0.27
OCT 16,83	OCT 15,83	1.12		0.13	0.01		0.028	<W	0.01	0.01
OCT 17,83	OCT 16,83	1.59		0.39	0.13		0.114		0.03	0.15
OCT 18,83	OCT 17,83	8.42		3.30	0.57		1.014		0.15	0.72
OCT 19,83	OCT 18,83	1.32		1.65	0.15		0.437		0.12	0.26
OCT 20,83	OCT 19,83	1.08		0.13	0.05		0.071		0.03	0.09
OCT 21,83	OCT 20,83	3.47		0.51	0.15		0.335		0.24	0.39
OCT 22,83	OCT 21,83	4.59		1.30	0.20		0.526		0.45	0.66
OCT 23,83	OCT 22,83	7.29		1.81	0.57		0.676		0.34	0.90
OCT 24,83	OCT 23,83	2.11		2.60	0.53		1.020		0.32	0.85
OCT 25,83	OCT 24,83	4.45		2.21	0.36		0.779		0.29	0.65
OCT 26,83	OCT 25,83	0.05		1.51	0.20		0.599		0.04	0.25
OCT 27,83	OCT 26,83	0.11		0.39	0.07		0.119	<W	0.01	0.07
OCT 28,83	OCT 27,83	3.55		0.82	0.12		0.235		0.06	0.18
OCT 29,83	OCT 28,83	7.51		2.23	0.31		0.636		0.19	0.50
OCT 30,83	OCT 29,83	0.65		0.17	0.01		0.025	<W	0.01	0.01
OCT 31,83	OCT 30,83	3.68		1.96	0.14		0.326		0.31	0.45
NOV 1,83	OCT 31,83	2.71		1.47	0.27		0.219		0.22	0.49
NOV 2,83	NOV 1,83	13.66		5.89	0.67	>	1.753		0.68	1.34
NOV 3,83	NOV 2,83	9.73		6.98	0.51	>	1.714		1.00	1.51
NOV 4,83	NOV 3,83	0.30		0.09	0.00		0.044	<W	0.01	0.00
NOV 5,83	NOV 4,83	1.35		0.91	0.09		0.166	<W	0.01	0.09
NOV 6,83	NOV 5,83	1.71		1.07	0.14		0.138	<W	0.01	0.14
NOV 7,83	NOV 6,83	0.97		1.21	0.10		0.310		0.04	0.15
NOV 8,83	NOV 7,83	2.09		2.23	0.13		0.791		0.29	0.41
NOV 9,83	NOV 8,83	25.93		7.71	0.86	>	1.792		0.74	1.60
NOV 10,83	NOV 9,83	4.91		3.81	0.20		0.073		0.65	0.85
NOV 11,83	NOV 10,83	4.55		5.65	0.50		1.594		0.36	0.86
NOV 12,83	NOV 11,83	0.43		0.34	0.00		0.097	<W	0.01	0.00
NOV 13,83	NOV 12,83	0.39	<W	0.04	0.02		0.000	<W	0.01	0.02
NOV 14,83	NOV 13,83	0.79		2.25	0.05		0.772		0.34	0.39
NOV 15,83	NOV 14,83	1.82		3.44	0.09		1.562		1.05	1.14

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR 811 PAGE : 15

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
NOV 16,83	NOV 15,83	800	800	1	25770.0	21121	2	1		
NOV 17,83	NOV 16,83	800	800	1	24870.0	21122	2	1		
NOV 18,83	NOV 17,83	800	800	1	26690.0	21123	2	1		
NOV 19,83	NOV 18,83	800	800	1	28550.0	21124	2	1		
NOV 20,83	NOV 19,83	800	800	1	25660.0	21125	2	1		
NOV 21,83	NOV 20,83	800	800	1	26230.0	21126	2	1		
NOV 22,83	NOV 21,83	800	800	1	27580.0	21127	2	1		
NOV 23,83	NOV 22,83	800	800	1	27000.0	21133	2	1		
NOV 24,83	NOV 23,83	800	800	1	29030.0	21134	2	1		
NOV 25,83	NOV 24,83	800	800	1	29300.0	21135	2	1		
NOV 26,83	NOV 25,83	800	800	1	29480.0	21136	2	1		
NOV 27,83	NOV 26,83	800	800	1	29520.0	21137	2	1		
NOV 28,83	NOV 27,83	800	800	1	30370.0	21138	2	1		
NOV 29,83	NOV 28,83	800	800	1	27790.0	21139	2	1		
NOV 30,83	NOV 29,83	800	800	1	30450.0	21141	2	1		
DEC 1,83	NOV 30,83	800	800	1	30160.0	21142	2	1		
DEC 2,83	DEC 1,83	800	800	1	30770.0	21143	2	1		
DEC 3,83	DEC 2,83	800	800	1	29640.0	21144	2	1		
DEC 4,83	DEC 3,83	800	800	1	30140.0	21145	2	1		
DEC 5,83	DEC 4,83	800	800	1	29470.0	21146	2	1		
DEC 6,83	DEC 5,83	800	800	1	25230.0	21147	2	1		
DEC 7,83	DEC 6,83	800	800	1	25490.0	21149	2	1		
DEC 8,83	DEC 7,83	800	800	1	29200.0	21150	2	1		
DEC 9,83	DEC 8,83	800	800	1	29230.0	21151	2	1		
DEC 10,83	DEC 9,83	800	800	1	26110.0	21152	2	1		
DEC 11,83	DEC 10,83	800	800	1	28310.0	21153	2	1		
DEC 12,83	DEC 11,83	800	800	1	29120.0	21154	2	1		
DEC 13,83	DEC 12,83	800	800	1	24880.0	21155	2	1		
DEC 14,83	DEC 13,83	800	800	1	26490.0	21157	2	1		
DEC 15,83	DEC 14,83	800	800	1	24650.0	21158	2	1		
DEC 16,83	DEC 15,83	800	800	1	27950.0	21159	2	1		
DEC 17,83	DEC 16,83	800	800	1	28090.0	21160	2	1		
DEC 18,83	DEC 17,83	800	800	1	28600.0	21161	2	1		
DEC 19,83	DEC 18,83	800	800	1	29170.0	21162	2	1		
DEC 20,83	DEC 19,83	800	800	1	29740.0	21163	2	1		
DEC 21,83	DEC 20,83	800	800	1	29720.0	21165	2	1		
DEC 22,83	DEC 21,83	800	800	1	29050.0	21166	2	1		
DEC 23,83	DEC 22,83	800	800	1	27010.0	21167	2	1		
DEC 24,83	DEC 23,83	800	800	1	29530.0	21168	2	1		
DEC 25,83	DEC 24,83	800	800	1	29340.0	21169	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
NOV 16,83	NOV 15,83	0.92	0.54	0.13	0.024		0.07	0.19
NOV 17,83	NOV 16,83	1.12	1.76	0.11	0.469	<M	0.01	0.11
NOV 18,83	NOV 17,83	1.14	1.36	0.07	0.326		0.08	0.15
NOV 19,83	NOV 18,83	0.92	0.92	0.03	0.149	<M	0.01	0.03
NOV 20,83	NOV 19,83	6.33	3.70	0.32	1.148		0.29	0.61
NOV 21,83	NOV 20,83	3.71	5.07	0.14	1.455		0.82	0.96
NOV 22,83	NOV 21,83	4.99	2.49	0.17	0.677		0.37	0.54
NOV 23,83	NOV 22,83	1.72	1.90	0.11	0.525.		0.02	0.12
NOV 24,83	NOV 23,83	5.56	2.28	0.27	0.620		0.17	0.44
NOV 25,83	NOV 24,83	6.77	4.64	0.52	1.467		0.26	0.78
NOV 26,83	NOV 25,83	1.40	2.54	0.27	0.637		0.06	0.33
NOV 27,83	NOV 26,83	3.32	1.90	0.16	0.272		0.02	0.17
NOV 28,83	NOV 27,83	3.36	0.58	0.03	0.056		0.02	0.05
NOV 29,83	NOV 28,83	1.49	1.08	0.13	0.359		0.05	0.18
NOV 30,83	NOV 29,83	7.57	2.57	0.33	0.750		0.18	0.51
DEC 1,83	NOV 30,83	2.36	1.47	0.22	0.533		0.23	0.45
DEC 2,83	DEC 1,83	2.21	1.93	0.19	0.466		0.23	0.42
DEC 3,83	DEC 2,83	8.56	3.86	0.57	1.268		0.52	1.09
DEC 4,83	DEC 3,83	1.62	1.52	0.10	0.459		0.05	0.15
DEC 5,83	DEC 4,83	3.69	3.20	0.10	1.301		0.54	0.64
DEC 6,83	DEC 5,83	10.85	5.03	0.71	1.559		0.24	0.95
DEC 7,83	DEC 6,83	3.63	3.70	0.19	0.322		0.05	0.24
DEC 8,83	DEC 7,83	5.94	0.98	0.03	0.218	<M	0.01	0.03
DEC 9,83	DEC 8,83	12.15	1.88	0.24	0.657		0.36	0.60
DEC 10,83	DEC 9,83	9.54	3.73	0.63	1.234		0.09	0.71
DEC 11,83	DEC 10,83	4.30	1.24	0.23	0.343		0.02	0.25
DEC 12,83	DEC 11,83	3.72	1.80	0.09	0.926		0.49	0.58
DEC 13,83	DEC 12,83	0.13	1.21	0.54	0.440		0.04	0.58
DEC 14,83	DEC 13,83	1.17	1.37	0.32	0.288	<M	0.01	0.32
DEC 15,83	DEC 14,83	2.92	3.40	0.38	0.772		0.06	0.44
DEC 16,83	DEC 15,83	8.42	3.71	0.47	0.976		0.23	0.71
DEC 17,83	DEC 16,83	10.01	3.83	0.53	1.185		0.35	0.87
DEC 18,83	DEC 17,83	8.17	1.84	0.10	0.578		0.27	0.38
DEC 19,83	DEC 18,83	3.84	2.31	0.33	0.738		0.10	0.43
DEC 20,83	DEC 19,83	5.59	1.30	0.07	0.067		0.08	0.15
DEC 21,83	DEC 20,83	5.44	1.85	0.10	0.524		0.24	0.34
DEC 22,83	DEC 21,83	4.79	3.49	0.11	1.441		0.68	0.79
DEC 23,83	DEC 22,83	7.87	2.55	0.30	0.439	<M	0.01	0.30
DEC 24,83	DEC 23,83	8.69	3.09	0.60	0.749		0.07	0.67
DEC 25,83	DEC 24,83	1.25	0.89	0.04	1.291		0.19	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 17

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
DEC 26,83	DEC 25,83	800	800	1	29780.0	21170	2	1		
DEC 27,83	DEC 26,83	800	800	1	29360.0	21171	2	1		
DEC 28,83	DEC 27,83	800	800	1	28860.0	21173	2	1		
DEC 29,83	DEC 28,83	800	800	1	28080.0	21174	2	1		
DEC 30,83	DEC 29,83	800	800	1	29770.0	21175	2	1		
DEC 31,83	DEC 30,83	800	800	1	29480.0	21176	2	1		
JAN 1,84	DEC 31,83	800	800	1	28690.0	21177	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11 PAGE : 18

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
DEC 26,83	DEC 25,83	1.20	0.76	0.00	2.153		0.15	0.15
DEC 27,83	DEC 26,83	13.52	3.02	0.52	0.728		0.04	0.56
DEC 28,83	DEC 27,83	36.71	4.72	1.36	0.995		0.04	1.40
DEC 29,83	DEC 28,83	30.73	4.23	0.85	1.099	<T	0.01	0.86
DEC 30,83	DEC 29,83	3.78	1.13	0.16	0.323		0.05	0.21
DEC 31,83	DEC 30,83	17.45	4.70	0.87	0.352		0.06	0.92
JAN 1,84	DEC 31,83	30.28	4.44	1.12	0.998		0.05	1.18

PART VI

NORTHWESTERN REGION DAILY AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,83	JAN 1,83	600	600	1	25570.0	95639	2	1		
JAN 3,83	JAN 2,83	600	600	1	26010.0	95640	2	1		
JAN 4,83	JAN 3,83	600	600	1	24890.0	95641	2	1		
JAN 5,83	JAN 4,83	600	600	1	24500.0	95644	2	1		
JAN 6,83	JAN 5,83	600	600	1	23890.0	95645	2	1		
JAN 7,83	JAN 6,83	600	600	1	22900.0	95646	2	1		
JAN 9,83	JAN 7,83	600	600	1	51840.0	95647	2	1	A	Z
JAN 10,83	JAN 9,83	600	600	1	22890.0	95648	2	1	A	
JAN 11,83	JAN 10,83	600	600	1	########	95649	2	1	A	
JAN 13,83	JAN 11,83	1000	600	1	44900.0	95653	2	1	A	Z
JAN 14,83	JAN 13,83	600	600	1	27850.0	95654	2	1		
JAN 17,83	JAN 14,83	600	600	1	99240.0	95655	2	1	A	Z
JAN 18,83	JAN 17,83	600	600	1	24140.0	95657	2	1		
FEB 3,83	FEB 2,83	1050	700	1	24820.0	95662	2	1		
FEB 4,83	FEB 3,83	700	700	1	30430.0	95663	2	1		
FEB 5,83	FEB 4,83	700	700	1	31200.0	95664	2	1		
FEB 6,83	FEB 5,83	700	700	1	30160.0	95665	2	1		
FEB 7,83	FEB 6,83	700	700	1	29200.0	95666	2	1		
FEB 8,83	FEB 7,83	700	700	1	29460.0	95667	2	1		
FEB 9,83	FEB 8,83	800	700	1	30530.0	95669	2	1		
FEB 11,83	FEB 9,83	700	700	1	55550.0	95670	2	1	A	Z
FEB 12,83	FEB 11,83	700	700	1	25800.0	95671	2	1		
FEB 13,83	FEB 12,83	700	700	1	26860.0	95672	2	1		
FEB 15,83	FEB 13,83	700	700	1	50310.0	95673	2	1	A	Z
MAR 17,83	MAR 15,83	1030	700	1	52660.0	95678	2	1	A	Z
MAR 18,83	MAR 17,83	700	700	1	28450.0	95679	2	1		
MAR 19,83	MAR 18,83	700	700	1	28730.0	95680	2	1		
MAR 20,83	MAR 19,83	700	700	1	30000.0	95681	2	1		
MAR 21,83	MAR 20,83	700	700	1	29550.0	95682	2	1		
MAR 30,83	MAR 29,83	800	700	1	26150.0	95687	2	1		
MAR 31,83	MAR 30,83	700	700	1	25090.0	95688	2	1		
APR 1,83	MAR 31,83	700	700	1	24880.0	95689	2	1		
APR 2,83	APR 1,83	700	700	1	25380.0	95690	2	1		
APR 3,83	APR 2,83	700	700	1	27750.0	95691	2	1		
APR 4,83	APR 3,83	700	700	1	27270.0	95692	2	1		
APR 5,83	APR 4,83	700	700	1	27440.0	95693	2	1		
APR 6,83	APR 5,83	700	700	1	26950.0	95695	2	1		
APR 7,83	APR 6,83	700	700	1	26230.0	95696	2	1		
APR 8,83	APR 7,83	700	700	1	28180.0	95697	2	1		
APR 9,83	APR 8,83	700	700	1	29740.0	95698	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR 816 PAGE : 2

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
JAN 2,83	JAN 1,83		0.68		0.88		0.07		0.215	<T	0.01		0.08
JAN 3,83	JAN 2,83		3.98		1.11		0.06		0.273	<T	0.01		0.07
JAN 4,83	JAN 3,83		1.26		1.71		0.17		0.521		0.06		0.23
JAN 5,83	JAN 4,83		0.58		1.63		0.17		0.437		0.06		0.23
JAN 6,83	JAN 5,83		0.94		1.99		0.17		1.011		0.47		0.64
JAN 7,83	JAN 6,83		0.47		2.89		0.29		0.828		0.33		0.61
JAN 9,83	JAN 7,83		1.28		1.86		0.19		0.466	<T	0.00		0.19
JAN 10,83	JAN 9,83		8.19		2.35		0.47		1.047		0.35		0.82
JAN 11,83	JAN 10,83		******		******		******		******		******		******
JAN 13,83	JAN 11,83		1.00		0.89		0.11		0.199	<W	0.01		0.11
JAN 14,83	JAN 13,83		0.49		0.99		0.04		0.053	<W	0.01		0.04
JAN 17,83	JAN 14,83		1.77		0.96		0.06		0.106	<W	0.00		0.06
JAN 18,83	JAN 17,83	<W	0.16		0.10	<W	0.01		0.034	<W	0.01	<W	0.02
FEB 3,83	FEB 2,83		1.15		1.46		0.06		0.183		0.00		0.06
FEB 4,83	FEB 3,83		0.67		0.78		0.05		0.119		0.00		0.05
FEB 5,83	FEB 4,83		0.54		0.60		0.06		0.086		0.01		0.07
FEB 6,83	FEB 5,83		1.12		0.41		0.03		0.094		0.00		0.03
FEB 7,83	FEB 6,83		1.22		0.64		0.05		0.107		0.00		0.05
FEB 8,83	FEB 7,83		1.62		1.19		0.31		0.345		0.00		0.31
FEB 9,83	FEB 8,83		0.99		0.82		0.09		0.211		0.00		0.09
FEB 11,83	FEB 9,83		4.88		3.40		0.29		0.139	<W	0.00		0.29
FEB 12,83	FEB 11,83		11.78	G	6.16		0.68		1.189	<W	0.01		0.68
FEB 13,83	FEB 12,83		4.97	G	11.13		1.09	G	2.248		0.04		1.13
FEB 15,83	FEB 13,83		0.38		1.46		0.41		1.413		0.23		0.64
MAR 17,83	MAR 15,83		0.21		1.09		0.05		0.084	<W	0.00		0.05
MAR 18,83	MAR 17,83		0.54		0.88		0.07		0.080	<W	0.01		0.07
MAR 19,83	MAR 18,83		0.64		1.09		0.02		0.105		0.02		0.04
MAR 20,83	MAR 19,83		3.39		3.60		0.03		0.416		0.02		0.05
MAR 21,83	MAR 20,83		1.29		1.61		0.01		0.175	<T	0.01		0.02
MAR 30,83	MAR 29,83		1.22		2.01		0.08		0.326	<W	0.01		0.08
MAR 31,83	MAR 30,83		3.90		5.14		0.33		1.203	<T	0.01		0.34
APR 1,83	MAR 31,83		4.79		4.18		0.29		0.691	<W	0.01		0.29
APR 2,83	APR 1,83		4.34		4.97		0.50		0.874	<W	0.01		0.50
APR 3,83	APR 2,83		5.93		3.68		0.35		0.250	<W	0.01		0.35
APR 4,83	APR 3,83		0.86		2.02		0.07		0.118	<W	0.01		0.07
APR 5,83	APR 4,83		0.52		2.10		0.04		0.145		0.02		0.06
APR 6,83	APR 5,83		0.44		0.74		0.05		0.108		0.00		0.05
APR 7,83	APR 6,83		0.58		1.62		0.08		0.094		0.00		0.08
APR 8,83	APR 7,83		0.75		2.09		0.04		0.132		0.00		0.04
APR 9,83	APR 8,83		1.04		1.81		0.03		0.004		0.00		0.03

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
APR 10,83	APR 9,83	700	700	1	28840.0	95699	2	1		
APR 11,83	APR 10,83	700	700	1	26090.0	95700	2	1		
APR 12,83	APR 11,83	700	700	1	27750.0	95701	2	1		
APR 13,83	APR 12,83	700	700	1	29010.0	95703	2	1		
APR 14,83	APR 13,83	700	700	1	25840.0	95704	2	1		
APR 19,83	APR 14,83	700	700	1	139330.0	95705	2	1	A	Z
MAY 5,83	MAY 4,83	900	900	1	25879.0	95709	2	1		
MAY 6,83	MAY 5,83	700	900	1	26080.0	95710	2	1		
MAY 7,83	MAY 6,83	700	900	1	26940.0	95711	2	1		
MAY 8,83	MAY 7,83	700	900	1	26938.0	95712	2	1		
MAY 9,83	MAY 8,83	700	900	1	25769.0	95713	2	1		
MAY 10,83	MAY 9,83	900	800	1	25171.0	95714	2	1		
MAY 11,83	MAY 10,83	815	815	1	25739.0	95716	2	1		
MAY 12,83	MAY 11,83	815	815	1	26383.0	95717	2	1		
MAY 13,83	MAY 12,83	815	815	1	25791.0	95718	2	1		
MAY 14,83	MAY 13,83	815	815	1	27741.0	95719	2	1		
MAY 15,83	MAY 14,83	815	815	1	27710.0	95720	2	1		
MAY 16,83	MAY 15,83	815	815	1	26765.0	95721	2	1		
MAY 17,83	MAY 16,83	815	815	1	27009.0	95722	2	1		
MAY 18,83	MAY 17,83	815	700	1	26950.0	95724	2	1		
MAY 19,83	MAY 18,83	700	700	1	28148.0	95725	2	1		
MAY 20,83	MAY 19,83	700	700	1	27666.0	95726	2	1		
MAY 21,83	MAY 20,83	700	700	1	29254.0	95727	2	1		
MAY 22,83	MAY 21,83	700	700	1	28120.0	95728	2	1		
MAY 23,83	MAY 22,83	700	700	1	26894.0	95729	2	1		
MAY 24,83	MAY 23,83	700	700	1	26768.0	95730	2	1		
MAY 25,83	MAY 24,83	700	700	1	27583.0	95732	2	1		
MAY 26,83	MAY 25,83	700	700	1	27579.0	95733	2	1		
MAY 27,83	MAY 26,83	700	700	1	27584.0	95734	2	1		
MAY 28,83	MAY 27,83	700	700	1	28263.0	95735	2	1		
MAY 29,83	MAY 28,83	700	700	1	24776.0	95736	2	1		
MAY 30,83	MAY 29,83	700	700	1	25173.0	95737	2	1		
MAY 31,83	MAY 30,83	700	700	1	26479.0	95738	2	1		
JUN 1,83	MAY 31,83	700	700	1	24884.0	95740	2	1		
JUN 2,83	JUN 1,83	700	700	1	26068.0	95741	2	1		
JUN 3,83	JUN 2,83	700	700	1	24996.0	95742	2	1		
JUN 4,83	JUN 3,83	700	700	1	24683.0	95743	2	1		
JUN 5,83	JUN 4,83	700	700	1	25345.0	95744	2	1		
JUN 6,83	JUN 5,83	700	700	1	24948.0	95745	2	1		
JUN 7,83	JUN 6,83	700	700	1	25164.0	95746	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 4

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
APR 10,83	APR 9,83		2.24		1.39		0.03		0.211		0.00		0.03
APR 11,83	APR 10,83		1.16		1.49		0.04		0.026		0.00		0.04
APR 12,83	APR 11,83		0.29		1.31		0.04		0.630		0.00		0.04
APR 13,83	APR 12,83		0.49		1.77		0.06		0.999		0.00		0.06
APR 14,83	APR 13,83		1.09	<W	0.05	<W	0.01		1.111	<W	0.01	<W	0.02
APR 19,83	APR 14,83		0.79		2.23		0.07		0.114	<W	0.00		0.07
MAY 5,83	MAY 4,83		0.29		1.59		0.04		0.000	<W	0.01		0.04
MAY 6,83	MAY 5,83		0.44		1.68		0.08		0.000		0.03		0.11
MAY 7,83	MAY 6,83		1.03		1.02		0.06	>	1.628	<W	0.01		0.06
MAY 8,83	MAY 7,83	<T	0.03		1.02		0.03	>	1.629	<W	0.01		0.03
MAY 9,83	MAY 8,83		0.43		1.36		0.04		0.849	<W	0.01		0.04
MAY 10,83	MAY 9,83		1.12		1.69		0.09		0.000		0.03		0.12
MAY 11,83	MAY 10,83		9.16		4.66	G	0.56		0.000		0.06		0.62
MAY 12,83	MAY 11,83		9.72	G	9.78	G	0.73		0.109	G	0.13		0.86
MAY 13,83	MAY 12,83	G	11.91	G	9.69	G	0.87		0.139		0.06		0.93
MAY 14,83	MAY 13,83		0.15		0.68		0.06		0.329	G	0.09		0.15
MAY 15,83	MAY 14,83		0.03		0.32		0.02		0.180	<T	0.01		0.02
MAY 16,83	MAY 15,83		0.05		0.61		0.03		0.038	<T	0.01		0.03
MAY 17,83	MAY 16,83		0.29		1.81		0.04		0.000	<W	0.01		0.04
MAY 18,83	MAY 17,83		******		2.60		0.18		0.683		0.05		0.23
MAY 19,83	MAY 18,83		******		4.12		0.35		0.000		0.03		0.38
MAY 20,83	MAY 19,83		******		5.06		0.28		0.103	<W	0.01		0.28
MAY 21,83	MAY 20,83		******		0.81		0.02		0.000	<W	0.01		0.02
MAY 22,83	MAY 21,83		******		2.00		0.22		0.041		0.02		0.23
MAY 23,83	MAY 22,83		******		0.56		0.04		0.054	<W	0.01		0.04
MAY 24,83	MAY 23,83		******		1.26		0.09		0.000	<W	0.01		0.09
MAY 25,83	MAY 24,83		******		0.86		0.01		0.006	<W	0.01		0.01
MAY 26,83	MAY 25,83		0.06		0.24		0.00		0.054		0.02		0.03
MAY 27,83	MAY 26,83		0.31		0.95		0.02		0.026	<W	0.01		0.02
MAY 28,83	MAY 27,83		0.42		1.28		0.06		0.290		0.02		0.08
MAY 29,83	MAY 28,83		0.28		0.96		0.03		0.210	<W	0.01		0.03
MAY 30,83	MAY 29,83		0.21		0.99		0.02		0.090		0.02		0.04
MAY 31,83	MAY 30,83		0.04		0.61		0.03		0.081		0.01		0.05
JUN 1,83	MAY 31,83		0.01		0.85		0.04		0.173		0.02		0.06
JUN 2,83	JUN 1,83		0.34		1.49		0.13		0.279		0.05		0.18
JUN 3,83	JUN 2,83		0.26		2.05		0.17		0.153		0.05		0.22
JUN 4,83	JUN 3,83		0.27		2.28		0.12		0.345		0.02		0.14
JUN 5,83	JUN 4,83		0.13		0.20		0.02		0.042	<W	0.01		0.02
JUN 6,83	JUN 5,83		0.22		1.25		0.03		0.083	<W	0.01		0.03
JUN 7,83	JUN 6,83		0.62		0.55		0.03		0.026		0.02		0.05

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
JUN 8,83	JUN 7,83	700	700	1	25664.0	95748	2	1		
JUN 9,83	JUN 8,83	700	700	1	23733.0	95749	2	1		
JUN 10,83	JUN 9,83	700	700	1	24802.0	95750	2	1		
JUN 11,83	JUN 10,83	700	700	1	13875.0	95751	2	1	A	
JUN 12,83	JUN 11,83	700	700	1	********	95752	2	1	A	
JUN 13,83	JUN 12,83	700	700	1	********	95753	2	1	A	
JUN 14,83	JUN 13,83	700	700	1	********	95754	2	1	A	
JUL 6,83	JUL 5,83	1045	700	1	25100.0	95757	2	1		
JUL 7,83	JUL 6,83	700	700	1	28650.0	95758	2	1		
JUL 8,83	JUL 7,83	700	700	1	27960.0	95759	2	1		
JUL 9,83	JUL 8,83	700	700	1	28260.0	95760	2	1		
JUL 10,83	JUL 9,83	700	700	1	28640.0	95761	2	1		
JUL 11,83	JUL 10,83	700	700	1	26870.0	95762	2	1		
JUL 12,83	JUL 11,83	700	700	1	27900.0	95763	2	1		
JUL 13,83	JUL 12,83	700	700	1	27330.0	95765	2	1		
JUL 14,83	JUL 13,83	700	700	1	27200.0	95766	2	1		
JUL 15,83	JUL 14,83	700	700	1	28080.0	95767	2	1		
JUL 16,83	JUL 15,83	700	700	1	28010.0	95768	2	1		
JUL 17,83	JUL 16,83	700	700	1	29220.0	95769	2	1		
JUL 18,83	JUL 17,83	700	700	1	28770.0	95770	2	1		
JUL 19,83	JUL 18,83	700	700	1	26800.0	95771	2	1		
JUL 20,83	JUL 19,83	800	700	1	26600.0	95773	2	1		
JUL 21,83	JUL 20,83	700	700	1	26600.0	95774	2	1		
JUL 22,83	JUL 21,83	700	700	1	28270.0	95775	2	1		
JUL 23,83	JUL 22,83	700	700	1	29970.0	95776	2	1		
JUL 24,83	JUL 23,83	700	700	1	28230.0	95777	2	1		
JUL 25,83	JUL 24,83	700	700	1	27370.0	95778	2	1		
JUL 26,83	JUL 25,83	700	700	1	27580.0	95779	2	1		
JUL 27,83	JUL 26,83	700	700	1	27420.0	95781	2	1		
JUL 28,83	JUL 27,83	700	700	1	27740.0	95782	2	1		
JUL 29,83	JUL 28,83	700	700	1	27090.0	95783	2	1		
AUG 2,83	JUL 29,83	700	700	1	113990.0	95784	2	1	A	Z
AUG 3,83	AUG 2,83	700	1100	1	56750.0	95789	2	1	A	
AUG 13,83	AUG 12,83	700	700	1	24680.0	95791	2	1		
AUG 14,83	AUG 13,83	700	700	1	27810.0	95792	2	1		
AUG 15,83	AUG 14,83	700	700	1	27290.0	95793	2	1		
AUG 16,83	AUG 15,83	700	700	1	26650.0	95794	2	1		
AUG 17,83	AUG 16,83	700	700	1	26118.0	95796	2	1		
AUG 18,83	AUG 17,83	700	700	1	27090.0	95797	2	1		
AUG 19,83	AUG 18,83	700	700	1	25860.0	95798	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR 016 PAGE : 6

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
JUN 8,83	JUN 7,83		0.05		0.00		0.06		0.037		0.00		0.06
JUN 9,83	JUN 8,83		0.07		0.00		0.09		0.185		0.00		0.09
JUN 10,83	JUN 9,83		0.00		0.03		0.07		0.183		0.00		0.07
JUN 11,83	JUN 10,83		0.00		0.00	<W	0.02		0.115		0.00		0.00
JUN 12,83	JUN 11,83		******		******		******		******		******		******
JUN 13,83	JUN 12,83		******		******		******		******		******		******
JUN 14,83	JUN 13,83		******		******		******		******		******		******
JUL 6,83	JUL 5,83	P	0.83	P	0.35	P	0.60	P	0.123	P	0.01	P	0.61
JUL 7,83	JUL 6,83	P	1.57	P	2.09	P	0.24	P	0.541	P	0.09	P	0.33
JUL 8,83	JUL 7,83	P	2.77	P	4.94	P	0.41	P	1.144	P	0.13	P	0.55
JUL 9,83	JUL 8,83	P	1.12	P	3.11	P	0.29	P	0.743	P	0.05	P	0.34
JUL 10,83	JUL 9,83	P	1.31	P	1.40	P	0.10	P	0.426	P	0.01	P	0.10
JUL 11,83	JUL 10,83	P	1.83	P	7.67	P	0.47		******	P	0.12	P	0.59
JUL 12,83	JUL 11,83	P	0.36	P	0.04	P	0.02	P	0.007	P	0.04	P	0.06
JUL 13,83	JUL 12,83		0.47		0.08		0.12		0.267		0.02		0.14
JUL 14,83	JUL 13,83		1.00		0.74		0.15		0.174		0.05		0.20
JUL 15,83	JUL 14,83		1.71		4.56		0.36		0.733	G	0.22		0.58
JUL 16,83	JUL 15,83		1.95	G	12.50	G	0.67	G	2.770		0.08		0.75
JUL 17,83	JUL 16,83		1.53	G	10.47	G	0.64	G	2.279		0.03		0.66
JUL 18,83	JUL 17,83		0.57		3.96		0.23		0.896		0.05		0.28
JUL 19,83	JUL 18,83		0.36		0.75		0.14		0.221		0.02		0.16
JUL 20,83	JUL 19,83		0.21		1.55		0.26		0.304	<W	0.01		0.26
JUL 21,83	JUL 20,83		0.39		1.55		0.21		0.376	<W	0.01		0.21
JUL 22,83	JUL 21,83		0.24		0.57		0.07		0.133	<W	0.01		0.07
JUL 23,83	JUL 22,83		0.20		1.30		0.14		0.250		0.03		0.17
JUL 24,83	JUL 23,83		0.05		0.18		0.02		0.041	<W	0.01		0.02
JUL 25,83	JUL 24,83		0.68		0.59		0.05		0.137	<W	0.01		0.05
JUL 26,83	JUL 25,83		0.34		0.36		0.08		0.098	<W	0.01		0.08
JUL 27,83	JUL 26,83		0.49		1.64		0.11		0.469	<W	0.01		0.11
JUL 28,83	JUL 27,83		1.34	G	8.07		0.30	G	1.798		0.02		0.32
JUL 29,83	JUL 28,83		0.04		3.83		0.18		1.121	<W	0.01		0.18
AUG 2,83	JUL 29,83		0.09		0.77		0.06		0.150		0.01		0.07
AUG 3,83	AUG 2,83		0.13		2.47		0.18		0.452	<W	0.00		0.18
AUG 13,83	AUG 12,83		0.35		1.67		0.04		0.464		0.04		0.08
AUG 14,83	AUG 13,83		0.53		1.84		0.08		0.567		0.04		0.11
AUG 15,83	AUG 14,83		0.44		0.87		0.03		0.328	<W	0.01		0.03
AUG 16,83	AUG 15,83		1.05		1.73		0.18		0.629		0.05		0.22
AUG 17,83	AUG 16,83		0.00		0.62		0.04		0.182	<W	0.01		0.04
AUG 18,83	AUG 17,83	<T	0.03		1.48		0.10		0.270		0.02		0.12
AUG 19,83	AUG 18,83		0.77		1.31		0.22		0.313	<W	0.01		0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR 816 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
AUG 20,83	AUG 19,83	700	700	1	27170.0	95799	2	1		
AUG 21,83	AUG 20,83	700	700	1	26350.0	95800	2	1		
AUG 22,83	AUG 21,83	700	700	1	24990.0	95801	2	1		
AUG 23,83	AUG 22,83	700	700	1	26120.0	95802	2	1		
AUG 24,83	AUG 23,83	700	200	1	27190.0	95804	2	1		
AUG 25,83	AUG 24,83	700	700	1	26370.0	95805	2	1		
AUG 27,83	AUG 25,83	700	700	1	46070.0	95806	2	1	A	Z
AUG 28,83	AUG 27,83	700	700	1	26770.0	95807	2	1		
AUG 29,83	AUG 28,83	700	700	1	26660.0	95808	2	1		
AUG 30,83	AUG 29,83	700	700	1	24830.0	95809	2	1		
AUG 31,83	AUG 30,83	800	700	1	27430.0	95812	2	1		
SEP 1,83	AUG 31,83	700	700	1	27570.0	95813	2	1		
SEP 2,83	SEP 1,83	700	700	1	26450.0	95814	2	1		
SEP 3,83	SEP 2,83	700	700	1	27210.0	95815	2	1		
SEP 5,83	SEP 3,83	700	700	1	52200.0	95816	2	1	A	Z
SEP 6,83	SEP 5,83	700	700	1	31200.0	95817	2	1		
SEP 23,83	SEP 20,83	1100	700	1	78210.0	95819	2	1	A	Z
SEP 27,83	SEP 23,83	700	700	1	103550.0	95820	2	1	A	Z
SEP 29,83	SEP 28,83	700	700	1	21060.0	95823	2	1		
SEP 30,83	SEP 29,83	700	700	1	24800.0	95824	2	1		
OCT 1,83	SEP 30,83	700	700	1	25070.0	95825	2	1		
OCT 2,83	OCT 1,83	700	700	1	24360.0	95826	2	1		
OCT 3,83	OCT 2,83	700	700	1	24980.0	95827	2	1		
OCT 4,83	OCT 3,83	700	700	1	24390.0	95828	2	1		
OCT 5,83	OCT 4,83	700	700	1	23970.0	95831	2	1		
OCT 6,83	OCT 5,83	700	700	1	25790.0	95832	2	1		
OCT 7,83	OCT 6,83	700	700	1	27730.0	95833	2	1		
OCT 8,83	OCT 7,83	700	700	1	25160.0	95834	2	1		
OCT 9,83	OCT 8,83	700	700	1	27820.0	95835	2	1		
OCT 10,83	OCT 9,83	700	700	1	27810.0	95836	2	1		
OCT 11,83	OCT 10,83	700	700	1	26220.0	95837	2	1		
OCT 12,83	OCT 11,83	700	700	1	27100.0	95846	2	1		
OCT 13,83	OCT 12,83	700	700	1	26200.0	95845	2	1		
OCT 14,83	OCT 13,83	700	700	1	25540.0	95844	2	1		
OCT 15,83	OCT 14,83	700	700	1	28550.0	95843	2	1		
OCT 16,83	OCT 15,83	700	700	1	25930.0	95842	2	1		
OCT 17,83	OCT 16,83	700	700	1	25820.0	95841	2	1		
OCT 18,83	OCT 17,83	700	700	1	27050.0	95840	2	1		
OCT 19,83	OCT 18,83	700	700	1	27410.0	95848	2	1		
OCT 20,83	OCT 19,83	700	700	1	26670.0	95849	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3	
AUG 20,83	AUG 19,83		0.19		0.60		0.06		0.136		0.03		0.09	
AUG 21,83	AUG 20,83		0.00		0.14		0.02		0.046	<W	0.01		0.02	
AUG 22,83	AUG 21,83		0.02		1.15		0.08		0.270	<T	0.01		0.09	
AUG 23,83	AUG 22,83		0.00	<T	0.05		0.04		0.021	<W	0.01		0.04	
AUG 24,83	AUG 23,83		0.08		0.32		0.04		0.074		0.02		0.06	
AUG 25,83	AUG 24,83		0.45		3.32		0.12		0.871	<W	0.01		0.12	
AUG 27,83	AUG 25,83		0.92		5.05		0.36	>	2.170		0.02		0.37	
AUG 28,83	AUG 27,83		0.19		0.89		0.11		0.213.		0.07		0.17	
AUG 29,83	AUG 28,83		0.26		1.03		0.13		0.364		0.06		0.18	
AUG 30,83	AUG 29,83		0.23		0.70		0.11		0.089		0.02		0.13	
AUG 31,83	AUG 30,83		0.10		0.91		0.06		0.101		0.01		0.07	
SEP 1,83	AUG 31,83		0.43		0.77		0.07		0.148	<W	0.01		0.07	
SEP 2,83	SEP 1,83		1.17		2.60		0.35		0.524		0.04		0.40	
SEP 3,83	SEP 2,83		1.96		5.29		0.40		0.995	G	0.12		0.51	
SEP 5,83	SEP 3,83		1.00		0.91		0.10		0.185		0.04		0.14	
SEP 6,83	SEP 5,83		0.33		0.32		0.05		0.044	<T	0.00		0.05	
SEP 25,83	SEP 20,83	P	0.20	P	0.00	P	0.01	P	0.009	P	0.00	P	0.01	
SEP 27,83	SEP 23,83	P	0.29	P	0.48	P	0.05	P	0.101	P	0.03	P	0.08	
SEP 29,83	SEP 28,83		0.00		1.72		0.02		0.473	<T	0.01		0.02	
SEP 30,83	SEP 29,83		0.00	<W	0.05		0.00		0.029	<W	0.01		0.00	
OCT 1,83	SEP 30,83		0.09		1.40		0.02		0.445		0.02		0.04	
OCT 2,83	OCT 1,83		0.00		0.41		0.00		0.134	<T	0.01		0.01	
OCT 3,83	OCT 2,83		0.00	<W	0.05		0.00		0.018	<W	0.01		0.00	
OCT 4,83	OCT 3,83		0.00	<W	0.05		0.00		0.019	<W	0.01		0.00	
OCT 5,83	OCT 4,83		0.02	<W	0.05		0.00		0.012	<W	0.01		0.00	
OCT 6,83	OCT 5,83		0.08		0.19		0.00		0.050	<W	0.01		0.00	
OCT 7,83	OCT 6,83		0.01	<T	0.05		0.00		0.063	<W	0.01		0.00	
OCT 8,83	OCT 7,83		0.01	<W	0.05		0.00		0.023	<W	0.01		0.00	
OCT 9,83	OCT 8,83		0.08		0.13		0.01		0.043		0.02		0.03	
OCT 10,83	OCT 9,83		0.11		0.27		0.03		0.080		0.03		0.06	
OCT 11,83	OCT 10,83		0.11		0.38		0.03		0.135	<T	0.01		0.04	
OCT 12,83	OCT 11,83	<W	0.14	<W	0.03		0.00		0.000	<W	0.01		0.00	
OCT 13,83	OCT 12,83		0.01		0.07		0.02		0.000	<T	0.01		0.02	
OCT 14,83	OCT 13,83		0.01	<T	0.03		0.02		0.000	<W	0.01		0.02	
OCT 15,83	OCT 14,83		0.01		0.07	<W	0.00		0.000		0.03		0.03	
OCT 16,83	OCT 15,83	<W	0.15	<W	0.03	<T	0.00		0.000	<W	0.01		0.00	
OCT 17,83	OCT 16,83	<W	0.15	<W	0.03	<T	0.00		0.000	<W	0.01		0.00	
OCT 18,83	OCT 17,83	<W	0.14		0.12	<T	0.00		0.000		0.03		0.03	
OCT 19,83	OCT 18,83		0.00		0.11		0.00		0.011	<W	0.00		0.00	
OCT 20,83	OCT 19,83		0.50		0.09		0.00		0.054	<W	0.01		0.00	

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR 816

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
OCT 21,83	OCT 20,83	700	700	1	26290.0	95850	2	1		
OCT 22,83	OCT 21,83	700	700	1	26930.0	95851	2	1		
OCT 23,83	OCT 22,83	700	700	1	26380.0	95852	2	1		
OCT 24,83	OCT 23,83	700	700	1	26490.0	95853	2	1		
OCT 25,83	OCT 24,83	700	700	1	25660.0	95854	2	1		
OCT 26,83	OCT 25,83	800	700	1	24290.0	95856	2	1		
OCT 27,83	OCT 26,83	700	700	1	27570.0	95857	2	1		
OCT 28,83	OCT 27,83	700	700	1	27250.0	95858	2	1		
OCT 29,83	OCT 28,83	700	700	1	28100.0	95859	2	1		
OCT 30,83	OCT 29,83	700	700	1	23140.0	95860	2	1		
OCT 31,83	OCT 30,83	700	700	1	27550.0	95861	2	1		
NOV 1,83	OCT 31,83	700	700	1	27040.0	95862	2	1		
NOV 2,83	NOV 1,83	700	700	1	27530.0	95864	2	1		
NOV 3,83	NOV 2,83	700	700	1	27470.0	95865	2	1		
NOV 4,83	NOV 3,83	700	700	1	27430.0	95866	2	1		
NOV 5,83	NOV 4,83	700	700	1	27920.0	95867	2	1		
NOV 6,83	NOV 5,83	700	700	1	26130.0	95868	2	1		
NOV 7,83	NOV 6,83	700	700	1	27560.0	95869	2	1		
NOV 8,83	NOV 7,83	700	700	1	27410.0	95870	2	1		
NOV 10,83	NOV 8,83	700	700	1	55680.0	95872	2	1	A	Z
NOV 11,83	NOV 10,83	700	700	1	29060.0	95873	2	1		
NOV 12,83	NOV 11,83	700	700	1	28800.0	95874	2	1		
NOV 13,83	NOV 12,83	700	700	1	29120.0	95875	2	1		
NOV 15,83	NOV 13,83	700	700	1	51250.0	95876	2	1	A	Z
NOV 16,83	NOV 15,83	700	700	1	23980.0	95895	2	1		
NOV 17,83	NOV 16,83	700	700	1	29030.0	95896	2	1		
NOV 18,83	NOV 17,83	700	700	1	27580.0	95897	2	1		
NOV 19,83	NOV 18,83	700	700	1	24900.0	95898	2	1		
NOV 20,83	NOV 19,83	700	700	1	24800.0	95899	2	1		
NOV 21,83	NOV 20,83	700	700	1	25150.0	95900	2	1		
NOV 22,83	NOV 21,83	700	700	1	27500.0	95901	2	1		
NOV 23,83	NOV 22,83	700	700	1	26010.0	95903	2	1		
NOV 24,83	NOV 23,83	700	700	1	24950.0	95904	2	1		
NOV 25,83	NOV 24,83	700	700	1	28050.0	95905	2	1		
NOV 26,83	NOV 25,83	700	700	1	27970.0	95906	2	1		
NOV 27,83	NOV 26,83	700	700	1	27880.0	95907	2	1		
NOV 28,83	NOV 27,83	700	700	1	27280.0	95908	2	1		
NOV 29,83	NOV 28,83	700	700	1	27280.0	95909	2	1		
NOV 30,83	NOV 29,83	700	700	1	27190.0	95911	2	1		
DEC 7,83	DEC 6,83	830	700	1	27180.0	95912	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 10

REMOVAL DATE	EXPOSURE DATE		SULPHUR DIOXIDE UG/M**3		SULPHATE UG/M**3		NITRIC AS N UG/M**3		AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3		TOTL NO3 AS N UG/M**3
OCT 21,83	OCT 20,83		0.79		0.24		0.00		0.084	<W	0.01		0.00
OCT 22,83	OCT 21,83		1.02		0.56		0.05		0.145	<W	0.01		0.05
OCT 23,83	OCT 22,83		0.06		0.47		0.01		0.137	<W	0.01		0.01
OCT 24,83	OCT 23,83		0.97		0.61		0.04		0.127	<W	0.01		0.04
OCT 25,83	OCT 24,83		0.09		0.44		0.00		0.129	<W	0.01		0.00
OCT 26,83	OCT 25,83		0.07		0.15		0.00		0.029		0.03		0.03
OCT 27,83	OCT 26,83		0.24		0.18		0.00		0.051		0.03		0.03
OCT 28,83	OCT 27,83		0.76		0.37		0.03		0.055		0.06		0.09
OCT 29,83	OCT 28,83		0.06		0.27		0.00		0.062		0.04		0.04
OCT 30,83	OCT 29,83		0.72		0.32		0.03		0.090		0.04		0.08
OCT 31,83	OCT 30,83		1.64		0.50		0.07		0.145	G	0.15		0.22
NOV 1,83	OCT 31,83		2.74		1.62		0.24		0.471		0.06		0.30
NOV 2,83	NOV 1,83		1.04		1.31		0.14		0.383		0.06		0.21
NOV 3,83	NOV 2,83		0.15		0.14		0.00		0.044		0.03		0.03
NOV 4,83	NOV 3,83		0.00		0.27		0.00		0.039		0.03		0.03
NOV 5,83	NOV 4,83		0.51		0.45		0.05		0.036		0.08		0.13
NOV 6,83	NOV 5,83		0.77		0.53		0.03		0.092		0.03		0.06
NOV 7,83	NOV 6,83		0.09		0.36		0.03		0.046		0.05		0.07
NOV 8,83	NOV 7,83		0.25		0.73		0.08		0.194		0.03		0.11
NOV 10,83	NOV 8,83		0.07		0.07		0.00		0.014		0.01		0.01
NOV 11,83	NOV 10,83		0.19		0.22		0.00		0.056	<W	0.01		0.00
NOV 12,83	NOV 11,83		2.51		0.22		0.05		0.046	<W	0.01		0.05
NOV 13,83	NOV 12,83		0.52		0.21		0.00		0.073	<W	0.01		0.00
NOV 15,83	NOV 13,83		0.10		0.15		0.02		0.046	<W	0.00		0.02
NOV 16,83	NOV 15,83		0.02	<T	0.05		0.00		0.008	<W	0.01		0.00
NOV 17,83	NOV 16,83		0.05		0.22	<W	0.01		0.057	<W	0.01	<W	0.02
NOV 18,83	NOV 17,83		0.05		0.32	<W	0.01		0.067	<W	0.01	<W	0.02
NOV 19,83	NOV 18,83		0.09		0.20		0.02		0.062	<W	0.01		0.02
NOV 20,83	NOV 19,83		0.05		0.15		0.02		0.056	<W	0.01		0.02
NOV 21,83	NOV 20,83		0.02	<W	0.05	<W	0.01	<T	0.004	<W	0.01	<W	0.02
NOV 22,83	NOV 21,83		0.02	<W	0.05	<W	0.01		0.005	<W	0.01	<W	0.02
NOV 23,83	NOV 22,83		0.10	<W	0.05	<W	0.01		0.006	<W	0.01	<W	0.02
NOV 24,83	NOV 23,83	<W	0.17	<W	0.05	<W	0.01	<W	0.002	<W	0.01	<W	0.02
NOV 25,83	NOV 24,83	<W	0.15	<T	0.04	<W	0.01		0.018	<W	0.01	<W	0.02
NOV 26,83	NOV 25,83		0.01		0.31	<W	0.01		0.041	<T	0.01		0.00
NOV 27,83	NOV 26,83		0.01		0.18	<W	0.01		0.043	<W	0.01	<W	0.02
NOV 28,83	NOV 27,83		0.02		0.09	<W	0.01		0.024	<W	0.01	<W	0.02
NOV 29,83	NOV 28,83	<W	0.15	<W	0.05	<W	0.01		0.005	<W	0.01	<W	0.02
NOV 30,83	NOV 29,83	P	0.34	P	0.05	P	0.02	P	0.004	P	0.01	P	0.03
DEC 7,83	DEC 6,83		0.43		0.28		0.04		0.163	<W	0.01		0.04

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	FILTER TYPE 01-ACTIVE 02-PASSIVE 03-BLANK	FLOW VOLUME(L)	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	COMMENTS FIELD	COMMENTS OFFICE
DEC 8,83	DEC 7,83	700	700	1	27640.0	95913	2	1		
DEC 13,83	DEC 8,83	700	800	1	143790.0	95914	2	1	A	Z

ONTARIO MINISTRY OF THE ENVIRONMENT
AIR SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3		NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
DEC 6,83	DEC 7,83	0.79	0.41	0.10	0.128	<N	0.01	0.10
DEC 13,83	DEC 8,83	0.31	0.23	0.04	0.045	<N	0.00	0.04